

TURKIYE PUBLIC AND MUNICIPAL RENEWABLE ENERGY PROJECT (PUMREP)

Environmental and Social Management Plan (ESMP) Checklist

**for Yenişehir Wastewater Treatment Plant
(WWTP) Solar Power Plant of
BUSKİ**

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Environmental and Social Management Plan (ESMP) Checklist

Part 1: General Subproject and Site Information

1.a) General	
Associated ILBANK Project	Türkiye Public and Municipal Renewable Energy Project (PUMREP)
International Financial Institution (IFI) Financing the Project	The World Bank
Project's E&S Risk Classification according to WB ESF (2018)	Moderate
Subproject Title	Yenişehir WWTP Solar (Photovoltaic) Power Plant (SPP)
Sub-borrower Name	Bursa Water and Sewerage Administration General Directorate (BUSKI)
Responsible ILBANK Regional Directorate (RD)	Bursa Regional Directorate
Subproject's E&S Risk Classification according to ILBANK ESMS (2023)	Moderate
Subproject Location	Province: Bursa District: Yenişehir Neighborhood/ Village: Gündoğan Neighborhood Parcel/Block no: 373 / 51
Scope of Subproject and Activity <i>(in case of any changes of the subproject please fill Appendix-12 and submit to ILBANK)</i>	Technology (e.g. Photovoltaic, monocrystalline, polycrystalline, thin film, bi-facial, tracking system, etc.): 330 Wp, 2,000 monocrystalline panels Installed power: 660 kWp Connection power: 500 kWe Annual electricity generation: 876 MWh/ year Construction Duration: Approximately 6 weeks (Panel and cable assembly included) Operation Duration (Economic life of the Plant): 25 years Number of Construction Workers (at peak, including contractors and subcontractors): 10 Number of Operations Workers (at peak): No new personnel will be hired for the operation; existing plant employees will be assigned to operational duties. Planned accommodation: There will be no staff accommodation within the scope of the Subproject.
Energy Transmission Line (ETL)	Grid connection: It will be established by connecting to the existing transformer station of the Yenişehir WWTP. Status of transformer station: The existing transformer at Yenişehir WWTP will be used. Energy transmission line (ETL): There will be no ETL construction. The solar power plant will connect to existing transformer station. A 250 m system connection will be made with the Medium Voltage (MV) connection line. The Subproject area will not extend beyond the boundaries of the site. There is no need for expropriation.
Access Roads	The existing roads used to access the Yenişehir WWTP site will continue to be used. No new roads will be opened as part of the Sub-Project, and no widening work will be carried out on existing roads.
Other Associated Facilities:	No
Are there any other associated facilities that are not funded as part of the Subproject and	

are (a) directly and significantly related to the Subproject, (b) carried out, or planned to be carried out, contemporaneously with the Subproject, <u>and</u> (c) necessary for the Subproject to be viable and would not have been constructed, expanded or conducted if the Subproject did not exist?	
Existing Permits	-In response to the application letter dated October 18, 2024, and numbered E-31874648-000-260456, the Environmental Impact Assessment Exemption Letter -Connection Agreement to the Distribution System dated January 20, 2021 -Request for Time Extension of the Distribution System Connection Agreement dated March 4, 2024 - Land Allocation Letter Received from the BUSKİ Real Estate Property and Expropriation Directorate dated 09.11.2015 See Appendix-2
1.b) Site Description	
Subproject Area	The parcel has an area of 57,931 m² and 7,000 m² will be used for the Subproject area. Number of parcels to be used: 1 parcel (373/51) Total title deed area of the parcel: 57,931 m² Total area to be used by the Subproject (within the fence area): 7,000 m² Appendix-1: Site Map Appendix-4: Photolog
Who owns the land? Since when?	The land title belongs to the Treasury and was allocated to BUSKİ by the Yenışehir District Governor's Office Property Directorate in 2014 for the duration of WWTP's service. The official letter of change of allocation purpose for the construction of a SPP in the WWTP area was approved on 09.11.2015.(see Appendix-2) See Appendix-3
Land Registry Type according to Title Deed (agricultural, pasture, vacant, etc.)	The parcel is the main land property and is listed as raw land in the land registry.
Current Land Use (are there any formal or informal agricultural users, herders, etc.)	The land where the SPP will be carried out is located within the boundaries of the Yenışehir WWTP. The area is fenced off and unauthorized entry is permitted. The land has no other users for grazing, agriculture, or other purposes.
Other Nearby Facilities and Activities Are there other industrial or commercial activities operated/operating or planned by the Sub-borrower itself or other public or private third-parties in the vicinity of the Subproject or its components/associated facilities?	The Subproject site is located 681 meters away from Şişecam Environmental Systems Yenışehir Branch and 580 meters away from Venüs Biscuit Industry and Trade Inc. These facilities are not expected to be affected by SPP construction activities.
Area of Influence	Subproject site or local¹. As defined in WB ESS-1, Area of Influence (AoI) encompasses the following, as appropriate:

¹ Project Site: (i.e. the impact is confined within the facilities owned or exclusively controlled by the subproject)

Local: (i.e. the impact extends to areas or communities around the subproject site)

	The area likely to be affected by: (i) the project and the client's activities and facilities that are directly owned, operated or managed (including by contractors) and that are a component of the Project; (ii) impacts from unplanned but predictable developments caused by the Project that may occur later or at a different location; or (iii) indirect Project impacts on biodiversity or on ecosystem services upon which Affected Communities' livelihoods are dependent. For the Subproject area, an Aol with a radius of 750 m centered on the SubProject site has been determined in accordance with WB ESS-1. This Aol includes the boundaries of three settlements: Gündoğan, Tabakhane, and Akdere Neighborhoods.
Description of geographic and physical characteristics as appropriate.	There is no flood risk in the SPP area. According to the Türkiye Landslide Inventory Map, old-active landslides, creep, flow, sliding, etc., shallow landslides, and flash floods are not present in the Subproject area. Bursa has a warm and temperate climate. There is much more rainfall in winter than in summer. August is the hottest month of the year with a temperature of 23.8 °C. The month with the least amount of sunshine in Yenişehir is January, with an average of 5.23 hours of sunshine per day. There is a total of 162.07 hours of sunshine in January. Approximately 2,904.96 hours of sunshine are recorded in Yenişehir throughout the year. There is an average of 95.37 hours of sunshine per month.
Description of biological characteristics as appropriate.	On April 17, 2025, observations were made by the POSEİDON Team Biologist at the Subproject site. According to WB ESS-6, habitats are classified into three main categories: Modified Habitat, Natural Habitat native species and Critical Habitat. Based on this classification, the Subproject site falls under the "Modified Habitat" category. The area does not contain ecosystems that qualify as natural or critical habitats. Furthermore, the Subproject site is not designated under any national or international protection status (e.g., Natura 2000, Ramsar, Key Biodiversity Areas, Nature Parks). The implementation of the Subproject does not pose a high risk to biodiversity conservation. No critical habitat screening, offset planning, or species-specific monitoring is required under WB ESS-6. Good practice measures (e.g. dust and noise control) are considered sufficient for Subproject implementation. Photographs of the plants in the site are shown in the figure.

	 Figure -1. <i>Lamium purpureum</i> (Purple dead-nettle) and <i>Crepis sancta</i> (Holy hawksbeard) The identified plant species are common, widely distributed, and not under any conservation status. No endemic, rare, or IUCN Red List threatened species were recorded. Therefore, the project area does not qualify as a critical habitat under WB ESS-6.
Description of geological and hydrographic characteristics as appropriate.	The geological stack in the study area consists of Paleozoic aged metamorphites consisting of shales and marbles at the bottom, Gemiciköy formation consisting of fine clasts and alluvium at the top. Rock units consisting of marbles and shales and Gemiciköy formation and alluvium units with high clay content surface in the study area. Therefore, there is no liquefaction risk in the study area. According to the Turkey Earthquake Hazard Map and Turkey Earthquake Hazard Map (http://tdth.afad.gov.tr/), the maximum ground acceleration values of the Project area with a 10% probability of exceedance in 50 years is 0.271g. There are no groundwater sources in the vicinity of the Project area. A creek bed is located 175 m away from the Subproject area. Excavation materials will be used for landscaping activities within the Subproject area and temporarily stored on-site.
Description of socio-economic characteristics as appropriate.	Socio-economically, the Subproject area is located away from settlements. The economy of Yenişehir District is based on agriculture and animal husbandry, but it began to industrialize in 2004 with the establishment of YOSAB (Yenişehir Organized Industrial Zone) by the Yenişehir Municipality. In both Gündoğan and Akdere neighborhoods, agriculture is the primary source of livelihood. The average annual household income is approximately TRY 20,000 in Gündoğan and TRY 17,000 in Akdere. The main agricultural products cultivated in these areas include walnuts, peppers, various fruits, beans, and corn. Agricultural activities are mostly carried out by small-scale family operations. The number of female-headed households is 2 in Gündoğan and 10 in Akdere. Unemployment in both neighborhoods is seasonal; while it is virtually nonexistent in the summer months, approximately 10 individuals are unemployed during the winter.

	Non-agricultural income sources are quite limited, and households rely heavily on agricultural production for subsistence. These neighborhoods can be characterized as low-income rural settlements with internal production capacity and social cohesion. Agricultural diversity and seasonal employment cycles are the main determinants of the socio-economic structure. In Tabakhane Neighborhood, additional vulnerable groups have also been identified based on demographic information shared by the mukhtar. There are 55 female-headed households, 10 individuals with disabilities, and 50 elderly individuals over the age of 75. As with other neighborhoods, these groups may encounter barriers in accessing sub-project-related information or coping with potential impacts due to factors such as limited mobility, or lack of social support. Agriculture is the primary source of livelihood. The average annual household income is approximately TRY 20,000.
If relevant, provide information about the affected settlements.	Closest settlements: - Gündoğan Neighborhood (with 1,278 population, according to 2024 data²) - Tabakhane Neighborhood (with 1,415 population, according to 2024 data) - Akdere Neighborhood (with 140 population, according to 2024 data) (Source:TurkSTAT) Closest structures to the Subproject site: - Apartments 1,363 km away from Subproject site. Tent Accommodation Area 1, where seasonal agricultural workers reside, is located approximately 721 meters from the sub-project site, while Tent Accommodation Area 2, used by livestock-keeping households, is situated approximately 347 meters away. Among the PAPs is a group of approximately 20 to 25 households residing in Tent Accommodation Area 2, located near the sub-project site. These households sustain their livelihoods primarily through livestock farming, involving both small and large ruminants, with a total estimated herd size of 1,500 to 2,000 animals, predominantly composed of sheep and goats. Field consultations revealed that only one male member from each household typically stays in the tent settlement to care for the livestock, while the rest of the family resides in permanent homes located in various neighborhoods within the district. Most of these families also include one or two individuals employed in local factories, indicating a diversified livelihood strategy. Despite their dependence on animal husbandry, community members emphasized that livestock farming alone is not sufficient to meet household needs. Significant infrastructure deficiencies were identified in Tent Accommodation Area 2. The area lacks access to formal electricity, potable water, and road infrastructure. Households rely on private wells for water and use generators and small-scale solar panels to meet basic electricity needs. The absence of a regular road network also limits their mobility and access to essential services. The pastureland used by this group spans approximately 550 decares, of which only 300 decares are considered usable. During field visits, community members expressed concerns about

² <https://www.nufusune.com/20089-bursa-yenisehir-gundogan-mahallesi-nufusu>

	potential dust dispersion and increased traffic during the construction phase, particularly from the wastewater treatment plant to their living area. However, they do not anticipate any income losses due to the sub-project. On the contrary, they stated that the sub-project could be beneficial if it creates local employment opportunities. To minimize adverse effects on the Tent Accommodation Area 2 community, the following mitigation measures will be implemented: • Regular watering of exposed surfaces to suppress dust emissions; • Establishment of designated and clearly marked access routes for construction vehicles; • Enforcement of speed limits for construction traffic; and careful scheduling of vehicle movements to avoid peak activity periods in sensitive areas. These measures aim to reduce both dust and traffic-related disturbances during construction. The tent accommodation area houses approximately 2,000 seasonal agricultural workers. According to observations made in the field, 1,200 of the 2,000 people are children. On the other hand, approximately 1,000 of the 2,000 people, including children, are women and 1,000 are men. The community sustains its livelihood primarily through seasonal agricultural labor. These groups are nomadic and relocate frequently throughout the year. Although the average stay is between one to two months, some families remain in the area for up to six months. All groups typically leave the area by November. Most of the residents originate from the Southeastern Anatolia Region of Türkiye. Electricity is supplied through small generators and solar panels, and non-potable water is available for daily use. However, the lack of proper sanitation infrastructure presents significant challenges. There are no established toilet facilities; instead, individuals dig makeshift pits, which contribute to unpleasant odors in the area. Adjacent to the settlement, containerized accommodation facilities with a capacity for approximately 300 individuals have been installed—reportedly provided through World Bank support. In addition to this accommodation area, designated units for a school and a health center have also been constructed to meet the education and healthcare needs of the tent-dwelling community. However, these service units are not yet operational.
Locations and distance to nearest sensitive receptors such as health care units, schools?	The nearest sensitive receptor is apartments 1,363 m away. There is also Dental Hospital 1,541 meter away.
Infrastructure services to be used during the life cycle of the subproject (sewage, electricity, water network, etc.)	Wastewater from settlements within the Subproject's Aol is conveyed to the Yenişehir WWTP via the sewerage system. Water requirements within the Aol are met by the network.
1.c) E&S Requirements applicable to the Subproject	
The subproject will be implemented in line with requirements of applicable national legislation and international agreements and conventions to which Türkiye is a party of. The following international standards will also be followed as applicable: - WB Environmental and Social Framework (ESF, 2018) and the Environmental and Social Standards (ESSs) forming part of the ESF - Good International Industry Practices (GIIPs) including but not limited to WB Group (WBG) General and Industry Sector Environmental, Health and Safety Guidelines³ (EHSGs) - International Finance Corporation (IFC) ESMS Implementation Handbook	

³ <https://www.ifc.org/en/insights-reports/2000/general-environmental-health-and-safety-guidelines>

- ILBANK Environmental and Social Management System (ESMS)

In cases where the requirements of the ILBANK ESMS or national legislation differ from those of the WB ESSs or the levels and measures presented outline in the relevant WBG EHS guidelines, the more stringent standard will apply.

Part 2: Implementation Arrangements

2.b) Implementation Responsibility and Resources

The sub-borrower shall implement and cause the contractor to be adopt and implement this ESMP Checklist satisfactory to ILBANK throughout the sub-financing agreement life cycle.

The sub-borrower is responsible for ensuring that adequate financial and human resources are allocated for the effective implementation of this ESMP Checklist.

Roles and Responsibilities are provided in **Appendix-10**.

2.c) Organizational Capacity

Sub-borrower:

The sub-borrower shall establish an organizational structure (Project Implementation Unit – PIU) with qualified staff and resources to the satisfaction of ILBANK and maintain it by ensuring that there is qualified staff assigned and serving on the duty throughout the sub-financing agreement life cycle.

The sub-borrower assigns the following personnel to support management and monitoring of subproject E&S risks and impacts and ensure full compliance with the requirements of this ESMP Checklist:

- o **Environmental Focal Point:** Hilal YILDIRIM, Msc. Environmental Engineer
- o **Social Focal Point** (who will also act as the Grievance Mechanism (GM) Focal Point): Hare Naz KARAKAYALI, Industrial Engineer
- o **Occupational Health and Safety (OHS) Specialist:** Erkan TÜCCAROĞLU, Occupational Safety and Health Branch Manager

Contractors:

The sub-borrower shall obligate awarded contractors to establish and maintain throughout the contract duration an organizational structure with qualified staff and resources.

This shall be achieved through assigning the following personnel under the contractor's organization prior to commencement of works:

- o **One (1) Environmental Specialist**
- o **One (1) Social Specialist**
- o **One (1) Occupational Health and Safety (OHS) Specialist**

The sub-borrower shall in writing notify ILBANK of the assigned contractor personnel prior to commencement of works.

2.d) Monitoring and Reporting

The sub-borrower shall promptly notify ILBANK of any incident or accident related to the subproject which has, or is likely to have, a significant⁴ adverse effect on the environment, the affected communities, the public or workers, including, inter alia, cases of sexual exploitation and abuse (SEA), sexual harassment (SH), and accidents that result in death, serious or multiple injury.

This notification shall be done by using ILBANK's E&S Incident Notification Form template (see **Appendix-8**). Completed E&S Incident Notification Form shall be submitted to ILBANK by the sub-borrower within **48 hours** of the incident or accident (contractor shall notify the sub-borrower within **24 hours** of the incident or accident).

The periodic E&S monitoring reporting requirements for the subproject is as follows:

⁴ Any incident or accident relating to the subproject which has, or is likely to have, a significant adverse impact on the environment and/or health and safety of communities or employees (direct or contracted) involved in the subprojects related operations will be considered significant, including, inter alia, chemical and/or hydrocarbon materials spills; fire, explosion or unplanned releases, including during transportation; ecological damage/destruction; traffic or other type of accidents that could result in fatalities or serious injuries affecting employees and/or public complaint or protest; failure of emissions or effluent treatment; legal/administrative notice of violation; penalties, fines, or increase in pollution charges; negative media attention; chance cultural finds; labor unrest or disputes; local community concerns.

- Construction contractor will prepare **monthly** E&S monitoring reports (ESMRs) and submit to supervision consultant ("*müşavir*").
- During the **construction** phase, the sub-borrower, with support from supervision consultant, will prepare **quarterly** ESMRs and submit to ILBANK.
- During the **operation** phase (throughout sub-financing agreement lifecycle, until the completion of repayment period), the sub-borrower will prepare **annual** ESMRs and submit to ILBANK.

ILBANK will provide the sub-borrower with the required template for the periodic ESMRs.

The Roles and Responsibilities are provided in **Appendix-10**.

Part 3: ESMP Matrix: Risk and Impacts, Mitigation and Monitoring

3.a) Construction ESMP Matrix

No.	Risks and Impacts	Receptor(s)	Proposed Mitigation Measure	Responsible Parties
Labor and Working Conditions				
1.	Working Conditions	Construction workforce Employees	• Conduct and record daily toolbox talks covering the OHS Plan and labor conditions. • Develop and implement a subproject-specific simplified Labor Management Procedure (SLMP, see Appendix-9) to ensure compliance in recruiting and managing all employees. • Enforce strict prohibition of child labor, forced labor, and unregistered labor as per SLMP requirements. • Workers will be provided with documented information that is clear and understandable regarding their rights under national labor law, including collective agreements, and their rights related to hours of work, wages, overtime, compensation, and benefits at the start of the working relationship and whenever any material changes occur. Recruitment procedures will comply with national labor legislation and ESS2, and an accessible grievance mechanism for workers will be implemented and maintained.	Contractor
2.	General OHS risks	Construction workforce	• Develop a comprehensive risk assessment document and Permit to Work Procedure for sub-project, addressing specific risks and defining mitigation measures. • Ensure that all employees, including subcontractors, receive necessary OHS training covering identified risks. • Prepare sub-project management plans, including Safe Work Procedures and an Emergency Response Plan. In addition, emergency scenarios will be identified for all possible risks and every employee will receive training on these scenarios. • Enforce safety procedures and provide appropriate PPE to all employees. • Incorporate job-specific safety procedures and requirements in OHS training programs.	Contractor

No.	Risks and Impacts	Receptor(s)	Proposed Mitigation Measure	Responsible Parties
3.	Physical Hazards: Lifting Operations OHS Risks	Construction workforce	• Ensure that lifting area will be enclosed with fence to prevent access to the lifting area during lifting work. • Ensure that warning signs will be installed for lifting activities • Ensure that safety procedures will be used for lifting operations. • Ensure that lifting work will be carried out by well trained, qualified, and certified lifting team and with proper communication means and flag man. • Ensure that workers will be provided with all necessary PPE and safety materials.	Contractor
4.	Physical Hazards: Rotating and Moving Equipment	Construction workforce	• Design machines to eliminate trap hazards and ensure that extremities are kept out of harm's way under normal operating conditions; i.e. availability of emergency stops dedicated to the machine and placed in strategic locations; • If a machine or equipment has an exposed moving part or an exposed pinch point that could endanger the safety of any worker, ensure that the machine or equipment is equipped with and protected by a guard or other device that prevents access to the moving part or pinch point. Guards should be designed and installed in conformance with appropriate machine safety standards; • Ensure that machinery with exposed or protected moving parts or in which energy can be stored (e.g. compressed air, electrical components) is turned-off, disconnected, isolated and de-energized (Locked Out and Tagged Out) during service or maintenance; • Where possible, ensure that equipment is designed and installed to enable routine servicing, such as lubrication, to be carried out without removing guarding devices or mechanisms.	Contractor
5.	Physical Hazards: Electrical Hazards	Construction workforce	• Ensure that all energized electrical devices and lines are marked with warning signs; • Ensure that the devices are locked (de-charging and leaving open with a controlled locking device) and labeled (warning sign placed on the lock) during service or maintenance; • Ensure that all electrical cords, cables, and hand power tools are checked for frayed or exposed cords. Also, ensure that the manufacturer's recommendations for the maximum permitted operating voltage of portable hand tools are followed; • Ensure that all electrical equipment used in environments that are wet or may become wet is double insulated/grounded and equipped with ground fault interrupter (GFI) protected circuits. Additionally, electrical panels should be	Contractor

No.	Risks and Impacts	Receptor(s)	Proposed Mitigation Measure	Responsible Parties
			protected with waterproof enclosures, and residual current devices (RCDs) should be used to prevent potential electrical hazards. • Ensure that power cords and extension cords are protected against damage from traffic by shielding or suspending above traffic areas, and if extension cables are to be used, they shall be selected according to the current to be carried and the length of the cable. Extension cables are for temporary use. Outdoor extension cables will be used. • Ensure that high-voltage equipment ('electrical hazard') and service rooms where access is controlled or prohibited are properly labeled; • Ensure that "No Approach" zones are established around or under high voltage lines; • Ensure that construction vehicles or other vehicles with rubber tires that come into direct contact with or arc across high-voltage cables are taken out of service for 48 hours; • Ensure that all buried electrical cables are thoroughly identified and marked prior to any excavation work. • Ensure that special training programs are organized for employees on electrical hazards and safety precautions. • Ensure that rapid response teams and emergency plans are established for electrical accidents. Moreover, fire extinguishers containing CO₂ will be provided for possible electrical fires. • Ensure that regular electrical safety inspections are conducted in the project area. • Ensure that periodic inspections are conducted to ensure that employees use appropriate personal protective equipment (PPE).	
6.	Physical Hazards: Welding and Hot Works	Construction workforce	• Ensure that appropriate eye protection, such as welder's goggles and/or a full-face eye shield, is provided for all personnel involved in or assisting with welding operations; • If welding or hot cutting is performed outside of established welding work stations, ensure that special hot work and fire prevention precautions and Standard Operating Procedures (SOPs) are in place, including "Hot Work Permits, stand-by fire extinguishers, stand-by fire watch and maintaining fire watch for up to one hour after welding or hot cutting is finished"; • Ensure that areas where welding or hot work is performed are cleared of flammable materials (e.g. fuel, solvent, spark-ignitable materials) and should be checked regularly. • Ensure that all employees are trained and informed about welding operations and the safe management of hot work.	Contractor

No.	Risks and Impacts	Receptor(s)	Proposed Mitigation Measure	Responsible Parties
7.	Fire Safety Prevention Measures and Emergency Response	Construction workforce Flora and fauna Soil, water resources	• Ensure all employees are trained for their responsibility to report dangers and fire fighting measures • Ensure that all flammable and hazardous materials are stored in designated, secure areas away from ignition sources. • Ensure firefighting systems and equipment are available • Ensure fire and emergency drills are conducted regularly. • Designate trained fire wardens for each area to lead evacuations and coordinate with emergency responders. • Keep an up-to-date list of emergency contacts, including local fire departments and hospitals, for quick access in case of fire. • Ensure an The number of people specified in the First Aid Regulation • of trained first-aiders are present within the subproject area.	Contractor
8.	Physical Hazards: Ergonomics, Repetitive Motion, Manual Handling Lifting	Construction workforce	• Establish clear weight limits for manual handling tasks and label heavy loads accordingly; • Ensure that mechanical assists are used to eliminate or reduce the effort required to lift materials, hold tools and work objects, and that more than one person is lifting if weights exceed thresholds; • Ensure that tools are selected and designed that reduce force requirements and holding times and improve postures; • Ensure that user-adjustable workstations are provided; • Ensure that rest and stretch breaks are incorporated into work processes and job rotation is in place; • Ensure quality control and maintenance programs are in place that reduce unnecessary forces and effort; • Ensure that additional special circumstances, such as left-handed people, are considered.	Contractor
9.	Physical Hazards: Industrial Vehicle Driving and Site Traffic	Construction workforce	• Ensure that industrial vehicle operators are trained in the safe use of specialized vehicles such as forklifts, including safe loading/unloading, load limits; • Make sure drivers undergo medical supervision; • Ensure that moving equipment with restricted rear visibility is equipped with audible back-up alarms; when the work equipment is in motion, any person is prevented from approaching the blind spots of the equipment. If this is not possible, object detection systems or warning systems are used. If this is not	Contractor

No.	Risks and Impacts	Receptor(s)	Proposed Mitigation Measure	Responsible Parties
			possible, a signaler is used, coordination is ensured with the people around or no one is allowed to enter the work area. • Ensure that rights of way, site speed limits, vehicle inspection requirements, operating rules and procedures (e.g. prohibiting operation of forklifts with forks down), and control of traffic patterns or direction are established; • Ensure that deliveries and movement of private vehicles are restricted to defined routes and areas, with 'one-way' movement preferred where appropriate.	
10.	Physical Hazards: Chemical Hazards	Construction workforce Flora and fauna Soil, water resources	• Ensure that the hazardous substance is replaced with a less hazardous substitute; • Ensure that engineering and administrative control measures are in place to prevent or minimize the release of hazardous substances into the working environment, keeping the exposure level below internationally established or recognized limits; • Ensure that the number of workers exposed or likely to be exposed is minimal; • Ensure that chemical hazards are communicated to workers through labeling and marking according to nationally and internationally recognized requirements and standards, including International Chemical Safety Cards (ICSC), Safety Data Sheets (SDSs) or equivalent. Any means of written communication should be in an easily understood language and be readily available to exposed workers and first-aid personnel; • Ensure that employees are trained in the use of available information (such as SDSs), safe working practices and proper use of PPE. • Ensure workers have access to suitable personal protective equipment (PPE), such as gloves, respirators, goggles, and protective clothing, based on the specific chemical hazards. • Store hazardous substances in designated areas with appropriate ventilation, labeling, and secure containment to prevent accidental exposure or spills. • Develop and implement a spill response (as a part of Emergency Response Plan) that includes containment, cleanup, and disposal of hazardous substances, along with emergency contact information. • Dispose of chemical waste according to regulations to prevent environmental contamination and worker exposure. • Regularly inspect and maintain chemical handling equipment, storage areas, and PPE to prevent leaks or accidental releases.	Contractor

No.	Risks and Impacts	Receptor(s)	Proposed Mitigation Measure	Responsible Parties
11.	Gender-Based Violence (GBV); Sexual Exploitation and Abuse/Sexual Harassment (SEA/SH) on Employees; Gender Inequality	Construction workforce	• Provide GBV and SEA/SH awareness sessions for the management teams of the construction contractor and consultants to promote understanding and accountability. • Conduct regular awareness meetings with workers to educate them on GBV and SEA/SH issues and the importance of respectful workplace conduct. • Ensure all workers receive training on recognizing, preventing, and responding to GBV and SEA/SH incidents. • Require all workers to review, sign, and adhere to a Code of Conduct that explicitly addresses unacceptable behaviors related to GBV and SEA/SH. • Implement a confidential and accessible grievance mechanism specifically designed to capture and address GBV and SEA/SH-related complaints in a timely manner.	Contractor
Resource Efficiency and Pollution Prevention and Management				
12.	Waste Management - General	Communities Construction workforce Flora and fauna Soil, water resources	• Sort waste at source into the waste categories specified in the Waste Management Regulations and continue to use the temporary waste storage area located in the existing WWTP, which is impermeable, has a suitable drainage channel, and is secured with a locked door. • Place labeled bins for each type of waste at strategic locations on-site to ensure correct disposal by workers. Thus, creek near the project area will also be	Contractor

No.	Risks and Impacts	Receptor(s)	Proposed Mitigation Measure	Responsible Parties
			prevented from being affected by waste that may occur during construction activities. • Implement practices to reduce waste generation by optimizing material use and reusing materials where possible. • Contract with local recycling facilities to ensure that recyclable materials (e.g., metals, paper, plastic) are properly processed. • Store waste in designated, secured areas to prevent littering, leaching, and environmental contamination. • Use leak-proof containers for hazardous or liquid waste and ensure they are adequately labeled. • Contract with licensed waste disposal companies to handle non-recyclable and hazardous wastes in accordance with Waste Management Regulation. • Track and document the disposal process to ensure compliance and accountability. • Conduct regular awareness sessions and training for workers on waste reduction techniques, proper disposal practices, and the importance of waste management. • Regularly monitor waste management practices, conduct site inspections, and assess waste volumes to identify areas for improvement. • Establish a reporting system to document waste types, quantities, and disposal methods. • Develop a comprehensive waste management plan that includes waste reduction targets, disposal methods, monitoring schedules, and assigned responsibilities for effective waste management throughout the project. • Use containment systems for waste that poses spill risks, and keep spill kits accessible. Train staff on immediate spill response actions to prevent soil and water contamination. • Conduct maintenance tasks, such as oil changes and battery replacements, off-site;	
13.	Waste Management - Electronic Waste Disposal	Communities Construction workforce Soil and water resources	• Contract with recycling facilities and/or manufacturers to ensure proper disposal or recycling of obsolete equipment; • Agreements will be set with e-waste recycling facilities to ensure responsible disposal of electronic waste from solar panels, inverters, batteries, etc. • WEEE EU Directive on the disposal of electronic waste: Guidelines for Electrical Waste Management will be followed.	Contractor
14.	Wastewater Management	Flora and fauna Soil, water resources	• Continue to use the lavabo in the existing WWTP for construction site personnel wastewater. •	Contractor

No.	Risks and Impacts	Receptor(s)	Proposed Mitigation Measure	Responsible Parties
15.	Soil and Groundwater Contamination	Communities Construction workforce Flora and fauna Soil and water resources	• Contain and clean up any oil, chemical, lubricant, or fuel spill immediately to prevent environmental contamination. • Implement spill prevention and response measures. Maintain spill containment and clean-up kits on-site. Ensure all spills are contained, cleaned, and disposed of by licensed waste management companies. • Conduct routine servicing of construction vehicles and equipment at designated off-site locations to minimize the risk of leaks or spills. • Perform refuelling in designated areas following strict protocols to prevent accidental spills. • Collect and store waste oil securely for recycling or dispose of it through licensed waste vendors to ensure safe handling. • Provide adequate sanitary facilities, including toilets and showers, for the construction workforce. Ensure prompt repairs and maintenance in the event of any leaks or spills to maintain hygiene and safety standards.	Contractor
16.	Dust and Gaseous Emissions	Communities Construction workforce Flora and fauna Ambient air quality	• Apply water spraying to suppress dust when dusting occurs on roads and construction area. Use water tankers to supply water for this purpose. • Inform communities/residential areas nearby about the schedule and nature of construction activities as part of the Stakeholder Engagement Plan (SEP). • Carry out loading and unloading of trucks carefully to prevent materials from dispersing or scattering. • Cover transport trucks with tarpaulins on public roads when arriving at or leaving the site to minimize dust. Clean truck tires before leaving the site to prevent mud and debris from spreading onto public roads. • Enforce a speed limit for trucks to reduce dust and improve site safety. • Use modern equipment and vehicles that meet relevant emission standards. Regularly inspect and maintain exhaust systems to ensure emission levels remain within safe limits. • Implement good site practices by using low-emission construction equipment and vehicles. Utilize cleaner fuels and technologies to reduce dust and other airborne pollutants. • Implement a grievance mechanism to address community concerns. Halt work in case of grievances until corrective measures are in place.	Contractor
17.	Environmental Noise	Communities Construction workforce	• Prohibit the operation of construction machinery at night to minimize noise disturbances. • Inform communities/residential areas nearby about the timing and nature of construction activities as part of the Stakeholder Engagement Plan (SEP). • Ensure that machinery and equipment used during land preparation and construction are distributed evenly throughout the site rather than concentrated in one location.	Contractor

No.	Risks and Impacts	Receptor(s)	Proposed Mitigation Measure	Responsible Parties
			• Choose construction machinery and equipment with low noise emissions to minimize noise impact on the surrounding area. • Use noise barriers or enclosures for loud equipment. • Conduct regular and periodic maintenance of construction machinery and equipment, including daily checks before each shift, to ensure optimal performance and reduce noise levels. • Ensure all vehicles used for transportation comply with the speed limits to minimize noise and enhance safety. • Establish a grievance mechanism to receive and address complaints related to noise and other nuisances from the community. • Halt construction activities in response to grievances until appropriate preventive measures are implemented to address the issues raised.	
18.	Hazardous Substances Management	Construction workforce Communities Flora and fauna Soil and water resources	• Maintain a comprehensive record of the types, quantities, and properties of hazardous materials to be stored on-site. • Establish a designated storage area specifically equipped for the safe storage of hazardous and toxic materials. • Ensure all storage containers are clearly labelled with appropriate hazard warnings, safety information, and emergency contact details to facilitate proper handling and identification. All chemicals will be managed in accordance with their Safety Data Sheets (SDS). • Utilize suitable containers, tanks, and bunding systems to contain hazardous materials and prevent spills, leaks, or releases. Implement secondary containment measures, such as berms, dikes, or containment basins, to capture any accidental releases. • Ensure adequate ventilation and venting systems are in place within storage areas to prevent the accumulation of hazardous vapours or gases. • Identify and safely remove hazardous materials, including lead-containing components from solar panels and electronic waste from inverters, following proper disposal protocols. • Implement appropriate containment and handling procedures to minimize the risk of spills or releases of hazardous substances during storage and handling. • Arrange for the proper disposal or recycling of hazardous materials through licensed facilities to ensure safe and compliant waste management.	Contractor

No.	Risks and Impacts	Receptor(s)	Proposed Mitigation Measure	Responsible Parties
Community Health and Safety				
19.	Increased traffic	Communities	• Coordinate traffic management to regulate construction vehicle movement. • Schedule construction activities during off-peak hours to minimize traffic congestion. • Ensure coordination and develop infrastructure upgrades or expansions in advance of the sub-project, including improvements to roads, utilities, and telecommunications if necessary. • Use clearly visible and durable signage, barriers, and/or warning lights to ensure traffic safety around construction area. • Provide regular updates to the community about construction schedules and traffic impacts. • Ensure all construction vehicles comply with speed limits specified in the regulations and are maintained to minimize emissions and noise. • Limit vehicle speed on unpaved roads to 30 km/h. • Conduct safety training for construction workers on road safety protocols and provide road safety training for all drivers. • Use safe traffic control measures, including road warning signs, speed bumps, and flag persons as necessary. • Monitor traffic conditions and adjust operations as necessary to ensure safety. • Repair any damage to the roads promptly. • Establish a grievance mechanism for community members to report traffic concerns. • Prepare an emergency response plan and protocols, if deemed necessary, to address potential infrastructure failures, accidents, or natural disasters during construction	Contractor
20.	Risks related with Gender Based Violence (GBV) Sexual Exploitation Abuse / Sexual Harassment (SEA/SH)	Communities	• Deliver ethical rules and public communication training to all employees to prevent gender-based violence (GBV), harassment, and abuse in the workplace. • Require all workers to sign and adhere to a code of conduct that promotes respectful behaviour. • Conduct regular awareness-raising sessions on-site focused on GBV prevention and other relevant social issues. • Establish a grievance mechanism to receive and address complaints related to GBV and workplace misconduct.	Contractor
21.	Local Economy, Livelihood Sources and Employment	Communities	• Prioritize local hiring for unskilled, semi-skilled, and skilled positions within the scope of the sub-project. • Regularly engage with local communities and maintain a grievance mechanism to address community concerns and feedback.	Contractor

No.	Risks and Impacts	Receptor(s)	Proposed Mitigation Measure	Responsible Parties
22.	Impacts on Vulnerable and Disadvantaged Individuals and Groups	Communities	• Develop and implement additional targeted mitigation measures, if needed, to address the community health and safety risks that can be faced by vulnerable groups (especially communities living in tents) due to inadequate infrastructure and services. • Ensure accessible, visual, and locally understandable communication of planned measures to community representatives from nearby tented settlements. • Ensure that all general mitigation measures (e.g., dust suppression, traffic management, noise control, and safety measures) are tailored to consider the specific needs of vulnerable groups. • Provide livelihood and employment support by prioritizing vulnerable groups (e.g., local unemployed youth, women, and low-income households) for job opportunities within the subproject.	Contractor
Land Acquisition, Restrictions on Land Use and Involuntary Resettlement				
23.	Impacts on Local Communities using the Site and Its Environs for Grazing, Agriculture	Communities	• Grazing and agricultural activities carried out in the immediate vicinity of the sub-project area are not expected to be significantly affected. However, develop and implement additional targeted mitigation measures, if needed, to address the risks on the environs of the subproject site. • Ensure availability of grievance mechanism for stakeholders affected by land use. • Personnel, vehicles, work machines and work equipment are prohibited from entering, being kept and waiting in lands outside the subproject areas. It will be ensured that no damage is done to these lands, assets and facilities. • Animal crossing paths will be left open to avoid restrictions on access to existing activities such as grazing.	Contractor
24.	Tent Accommodation Area 1 and 2	Communities	• Dust Control Measures: Regular watering of construction areas and unpaved roads, especially those near tent settlements, to reduce dust dispersion. Covering of transported materials that may generate dust. • Traffic Management: Enforcement of speed limits for construction vehicles near the tent areas, scheduling of heavy vehicle movement outside of peak community activity hours, and where possible, designation of alternative routes to avoid residential areas. • Accessible Grievance Mechanism: Installation of clearly visible and easily accessible grievance boxes in both tent areas. Informational posters and oral explanations will be provided to ensure that all residents, including those with low literacy, understand the process. • Continuous Community Engagement: Regular and culturally appropriate communication with residents in the tents will be maintained through local	BUSKİ PIU and Contractor

No.	Risks and Impacts	Receptor(s)	Proposed Mitigation Measure	Responsible Parties
			facilitators and mukhtars. Updates will be shared in plain language and through face-to-face briefings to ensure understanding. Information regarding when and for how long the construction work for the sub-project will take place, as well as details about the sub-project's grievance mechanism, will be communicated to people living in tents.	
Biodiversity Conservation and Sustainable Management of Living Natural Resources				
25.	Disturbance on Biodiversity	Flora and fauna	- Engage qualified biodiversity experts to conduct pre-construction surveys to identify presence and distribution of flora and fauna on the subproject site, if any, with a focus on impact on habitats such as nesting or burrowing sites, to avoid disturbance or destruction during construction activities. - Implement a gradual construction approach to allow fauna species time to escape or provide for their relocation to suitable habitats. - Schedule construction activities during periods of low wildlife activity, avoiding nesting seasons for birds and hibernation periods for mammals. - Minimize vegetation removal by conducting thorough surveys to avoid unnecessary clearing. - Restore natural vegetation upon completion of construction activities to enable species to re-inhabit surrounding areas. - Install barriers around known burrows or nesting sites to protect them from disruption during construction, using temporary or permanent solutions as necessary. - Clearly separate subproject construction sites and access roads from other areas with appropriate signage and fencing, limiting personnel and vehicle access to these areas. - Reduce habitat degradation by keeping vehicles on designated access roads and minimizing pedestrian traffic in intact areas. - Excess excavated material will be stored within the site for later use in landscaping and will not be removed from the site.	Contractor
Cultural Heritage				
26.	Impacts on Cultural Heritage	Cultural heritage	- Develop and implement the Chance Finds Procedure (see Appendix-11) to ensure timely identification and appropriate management of any chance findings during sub-project implementation. - Include the Chance Finds Procedure as part of toolbox training sessions during construction to raise awareness among workers. - Stop construction work immediately if any chance finds are encountered. - Inform the relevant Preservation Board or Museum Directorate and ILBANK immediately, and ensure the security of the area by the contractor. Construction work will not resume until official notification is received.	Contractor

No.	Risks and Impacts	Receptor(s)	Proposed Mitigation Measure	Responsible Parties
Stakeholder Engagement and Information Disclosure				
27.	Insufficient Stakeholder Engagement Activities and Public Consultation.	Communities Construction workforce	• Create channels for interaction and communication with local communities, ensuring that engagement activities are scheduled at convenient times. • Conduct regular consultations with relevant authorities and local communities to discuss subproject activities and gather feedback. • ESMP Checklist, SEP and other relevant subproject documents and information will be disclosed to subproject employees including contractors, subproject stakeholders which are defined in the SEP and the public. • Establishment and proper functioning of a grievance mechanism will be ensured and information about it disseminated to the public. • It will be ensured that the concerns of all stakeholders are addressed. • An adequate communication framework will be established to ensure that vulnerable groups' voices are heard, pending issues are resolved and grievances heard.	Sub-borrower

3.b) Operation ESMP Matrix

Ref.	Impact Description	Sensitive Receptor(s)	Management/ Mitigation Measure	Responsibility for Implementation of Mitigation Measure
Labor and Working Conditions				
1.	Improper Working Conditions	Employees	• Conduct daily/weekly toolbox talks covering the OHS Plan and labor conditions. • Apply the SLMP to ensure compliance in recruiting and managing all employees. • Enforce strict prohibition of child labor, forced labor, and unregistered labor as per SLMP requirements. • Provide employees with clear, documented information on their labor rights, including working hours, wages, overtime, compensation, and benefits at the start of employment and whenever material changes occur. • Implement and maintain an accessible Grievance Mechanism for workers. Inform all workers at recruitment.	Sub-borrower
2.	General OHS risks	Employees	• Develop a comprehensive risk assessment document and Permit to Work Procedure for sub-project, addressing specific risks and defining mitigation measures. • Ensure that all employees, including subcontractors, receive necessary OHS training covering identified risks. • Prepare sub-project management plans, including Safe Work Procedures and an Emergency Response Plan. In addition, emergency scenarios will be identified for all possible risks and every employee will receive training on these scenarios. • Enforce safety procedures and provide appropriate PPE to all employees. • Incorporate job-specific safety procedures and requirements in OHS training programs.	Sub-borrower
3.	Physical Hazards: Lifting Operations OHS Risks	Employees	• Ensure that lifting area will be enclosed with fence to prevent access to the lifting area during lifting work. • Ensure that warning signs will be installed for lifting activities • Ensure that safety procedures will be used for lifting operations. • Ensure that lifting work will be carried out by well trained, qualified, and certified lifting team and with proper communication means and flag man. • Ensure that workers will be provided with all necessary PPE and safety materials. • Ensure all equipment used for lifting operations including slings, chains and hooks are checked technically and records are kept according to local safety legislation.	Sub-borrower

Ref.	Impact Description	Sensitive Receptor(s)	Management/ Mitigation Measure	Responsibility for Implementation of Mitigation Measure
4.	Physical Hazards: Electrical Hazards	Employees	• No one without a valid certification on vocational training on electricity will be allowed to work on electrical installations. • Ensure that all energized electrical devices and lines are marked with warning signs; • Ensure that the devices are locked (Locked Out and Tagged Out)(de-charging and leaving open with a controlled locking device) and labeled (warning sign placed on the lock) during service or maintenance; • Ensure that all electrical cords, cables, and hand power tools are checked for frayed or exposed cords. These cables must not be spliced or taped. Also, ensure that the manufacturer's recommendations for the maximum permitted operating voltage of portable hand tools are followed; • Ensure that all electrical equipment used in environments that are wet or may become wet is double insulated/grounded and equipped with ground fault interrupter (GFI) protected circuits. Additionally, electrical panels should be protected with waterproof enclosures, and residual current devices (RCDs) should be used to prevent potential electrical hazards. • Ensure that power cords and extension cords are protected against damage from traffic by shielding or suspending above traffic areas, and If extension cables are to be used, they shall be selected according to the current to be carried and the length of the cable. Extension cables are for temporary use. • Ensure that high-voltage equipment ('electrical hazard') and service rooms where access is controlled or prohibited are properly labeled; • Ensure that "No Approach" zones are established around or under high voltage lines; • Ensure that construction vehicles or other vehicles with rubber tires that come into direct contact with or arc across high-voltage cables are taken out of service for 48 hours; • Ensure that all buried electrical cables are thoroughly identified and marked prior to any excavation work. • Ensure that special training programs are organized for employees on electrical hazards and safety precautions. • Ensure that rapid response teams and emergency plans are established for electrical accidents. Moreover, fire extinguishers containing CO₂ will be provided for possible electrical fires. • Ensure that regular electrical safety inspections are conducted in the project area. • Ensure that periodic inspections are conducted to ensure that employees use appropriate personal protective equipment (PPE).	Sub-borrower

Ref.	Impact Description	Sensitive Receptor(s)	Management/ Mitigation Measure	Responsibility for Implementation of Mitigation Measure
5.	Fire Safety Prevention Measures and Emergency Response	Employees Flora and fauna Soil, water resources	• Ensure all employees are trained for their responsibility to report dangers and firefighting measures • Ensure that all flammable and hazardous materials are stored in designated, secure areas away from ignition sources. • Ensure firefighting systems and equipment are available. • Ensure fire and emergency drills are conducted regularly. • Designate trained fire wardens for each area to lead evacuations and coordinate with emergency responders. • Keep an up-to-date list of emergency contacts, including local fire departments and hospitals, for quick access in case of fire. • Ensure an the number of people specified in the First Aid Regulation of trained first-aiders are present within the subproject area.	Sub-borrower
6.	Physical Hazards: Ergonomics, Repetitive Motion, Manual Handling Lifting	Employees	• Establish clear weight limits for manual handling tasks and label heavy loads accordingly; • Ensure that mechanical assists are used to eliminate or reduce the effort required to lift materials, hold tools and work objects, and that more than one person is lifting if weights exceed thresholds; • Ensure that tools are selected and designed that reduce force requirements and holding times and improve postures; • Ensure that user-adjustable workstations are provided; • Ensure that rest and stretch breaks are incorporated into work processes and job rotation is in place; • Ensure quality control and maintenance programs are in place that reduce unnecessary forces and effort; • Ensure that additional special circumstances, such as left-handed people, are considered. Employees should be trained on correct posture and working positions, and habits of slouching and lifting incorrect loads should be corrected. •	Sub-borrower
7.	Physical Hazards: Chemical Hazards	Employees Flora and fauna Soil, water resources	• Ensure that the hazardous substance is replaced with a less hazardous substitute; • Ensure that engineering and administrative control measures are in place to prevent or minimize the release of hazardous substances into the working environment, keeping the exposure level below internationally established or recognized limits; • Ensure that the number of workers exposed or likely to be exposed is minimal; • Ensure that chemical hazards are communicated to workers through labeling and marking according to nationally and internationally recognized requirements and standards, including International Chemical Safety Cards (ICSC), Material Safety Data Sheets (SDSs) or equivalent.	Sub-borrower

Ref.	Impact Description	Sensitive Receptor(s)	Management/ Mitigation Measure	Responsibility for Implementation of Mitigation Measure
			Any means of written communication should be in an easily understood language and be readily available to exposed workers and first-aid personnel; • Ensure that employees are trained in the use of available information (such as SDSs), safe working practices and proper use of PPE. • Ensure workers have access to suitable personal protective equipment (PPE), such as gloves, respirators, goggles, and protective clothing, based on the specific chemical hazards. • Store hazardous substances in designated areas with appropriate ventilation, labeling, and secure containment to prevent accidental exposure or spills. • Develop and implement a spill response (as a part of Emergency Response Plan) that includes containment, cleanup, and disposal of hazardous substances, along with emergency contact information. • Dispose of chemical waste according to regulations to prevent environmental contamination and worker exposure. • Regularly inspect and maintain chemical handling equipment, storage areas, and PPE to prevent leaks or accidental releases.	
8.	Gender-Based Violence (GBV); Sexual Exploitation and Abuse/Sexual Harassment (SEA/SH) on Employees; Gender Inequality	Employees	• Provide GBV and SEA/SH awareness sessions for the management teams of the construction contractor and consultants to promote understanding and accountability. • Conduct regular awareness meetings with workers to educate them on GBV and SEA/SH issues and the importance of respectful workplace conduct. • Ensure all workers receive training on recognizing, preventing, and responding to GBV and SEA/SH incidents. • Require all workers to review, sign, and adhere to a Code of Conduct that explicitly addresses unacceptable behaviors related to GBV and SEA/SH. • Implement a confidential and accessible grievance mechanism specifically designed to capture and address GBV and SEA/SH-related complaints in a timely manner.	Sub-borrower

Ref.	Impact Description	Sensitive Receptor(s)	Management/ Mitigation Measure	Responsibility for Implementation of Mitigation Measure
Resource Efficiency and Pollution Prevention and Management				
9.	Waste Management	Employees Communities Flora and fauna Soil, water resources	• Separate waste at the source into waste categories determined in Waste Management Regulation, establish temporary waste storage area • Place labeled bins for each type of waste at strategic locations on-site to ensure correct disposal by workers. • Implement practices to reduce waste generation by optimizing material use and reusing materials where possible. • Contract with local recycling facilities to ensure that recyclable materials (e.g., metals, paper, plastic) are properly processed. • Store waste in designated, secured areas to prevent littering, leaching, and environmental contamination. • Use leak-proof containers for hazardous or liquid waste and ensure they are adequately labeled. • Contract with licensed waste disposal companies to handle non-recyclable and hazardous wastes in accordance with Waste Management Regulation. • Track and document the disposal process to ensure compliance and accountability. • Conduct regular awareness sessions and training for workers on waste reduction techniques, proper disposal practices, and the importance of waste management. • Regularly monitor waste management practices, conduct site inspections, and assess waste volumes to identify areas for improvement. • Establish a reporting system to document waste types, quantities, and disposal methods. • Develop a comprehensive waste management plan that includes waste reduction targets, disposal methods, monitoring schedules, and assigned responsibilities for effective waste management throughout the project. • Use containment systems for waste that poses spill risks, and keep spill kits accessible. Train staff on immediate spill response actions to prevent soil and water contamination. • Conduct maintenance tasks, such as oil changes and battery replacements, off-site;	Sub-borrower
10	Electronic Waste Disposal	Employees Communities Flora and fauna Soil, water resources	• Contract with recycling facilities and/or manufacturers to ensure proper disposal or recycling of obsolete equipment; • Agreements will be set with e-waste recycling facilities to ensure responsible disposal of electronic waste from solar panels, inverters, batteries, etc.	Sub-borrower
11	Water Use	Flora and fauna Soil, water resources	• Use water efficiently when cleaning solar panels to minimize water consumption and wastewater production. • Implement wiper cleaning using rubber blade water sprayers that require minimal water, promoting water conservation practices.	Sub-borrower

Ref.	Impact Description	Sensitive Receptor(s)	Management/ Mitigation Measure	Responsibility for Implementation of Mitigation Measure
12	Wastewater Management	Flora and fauna Soil, water resources	Regular maintenance and cleaning of lavabo will prevent clogging and overflowing.	Sub-borrower
13	Soil and Groundwater Contamination	Employees Communities Flora and fauna Soil and water resources	- Contain and clean up any oil, chemical, lubricant, or fuel spill immediately to prevent environmental contamination. - Implement spill prevention and response measures. Maintain spill containment and clean-up kits on-site. Ensure all spills are contained, cleaned, and disposed of by licensed waste management companies. - Conduct routine servicing of construction vehicles and equipment at designated off-site locations to minimize the risk of leaks or spills. - Collect and store waste oil securely for recycling or dispose of it through licensed waste vendors to ensure safe handling. - Provide adequate sanitary facilities, including toilets and showers, for the construction workforce. Ensure prompt repairs and maintenance in the event of any leaks or spills to maintain hygiene and safety standards.	Sub-borrower
14	Hazardous Substances Management	Employees Communities Flora and fauna Soil and water resources	- Maintain a comprehensive record of the types, quantities, and properties of hazardous materials to be stored on-site. - Establish a designated storage area specifically equipped for the safe storage of hazardous and toxic materials. - Ensure all storage containers are clearly labelled with appropriate hazard warnings, safety information, and emergency contact details to facilitate proper handling and identification. All chemicals will be managed in accordance with their Safety Data Sheets (SDS). - Utilize suitable containers, tanks, and bunding systems to contain hazardous materials and prevent spills, leaks, or releases. Implement secondary containment measures, such as berms, dikes, or containment basins, to capture any accidental releases. - Ensure adequate ventilation and venting systems are in place within storage areas to prevent the accumulation of hazardous vapours or gases. - Identify and safely remove hazardous materials, including lead-containing components from solar panels and electronic waste from inverters, following proper disposal protocols. - Implement appropriate containment and handling procedures to minimize the risk of spills or releases of hazardous substances during storage and handling. - Arrange for the proper disposal or recycling of hazardous materials through licensed facilities to ensure safe and compliant waste management.	Sub-borrower
Community Health and Safety				
15	Risk of accidents and injury (e.g. Electric	Communities	Project are must be fenced and access of the community members (especially children) must be physically restricted by any means.	Sub-borrower

Ref.	Impact Description	Sensitive Receptor(s)	Management/ Mitigation Measure		Responsibility for Implementation of Mitigation Measure
	Shock) involving community members (inc. Children)		• Security surveillance of the area must be maintained 7/24		
16	Glare from Solar Panels which can be a Safety Hazard for Drivers, Pedestrians, and Nearby Residents, particularly if it Impairs Visibility or Causes Discomfort	Communities	• Ensure correct orientation of solar panels to minimize glare and reduce potential impact on road safety near the solar plant. • Apply anti-glare coatings to panels where required to further mitigate glare and enhance road safety in the vicinity.		Sub-borrower
17	Risks Related with Gender Based Violence (GBV) Sexual Exploitation Abuse / Sexual Harassment (SEA/SH)	Communities	• Deliver ethical rules and public communication training to all employees to prevent gender-based violence (GBV), harassment, and abuse in the workplace. • Require all workers to sign and adhere to a code of conduct that promotes respectful behavior. • Conduct regular awareness-raising sessions on-site focused on GBV prevention and other relevant social issues. • Establish a grievance mechanism to receive and address complaints related to GBV and workplace misconduct.		Sub-borrower
18	Impacts on Local Economy, Livelihood Sources and Employment	Communities	• Regularly engage with local communities and maintain a grievance mechanism to address community concerns and feedback.		Sub-borrower
19	Impacts on Vulnerable and Disadvantaged Individuals and Groups	Communities	• Provide livelihood and employment support by prioritizing vulnerable groups (e.g., local unemployed youth, women, and low-income households) for job opportunities within the subproject. • Develop and implement support measures for vulnerable individuals and groups, including enhanced stakeholder engagement, tailored communication. Establishment and implementation of an accessible and user-friendly grievance mechanism to address the concerns of vulnerable groups during the operational phase. • Informational posters and oral explanations about grievance mechanism will be provided to people living in tents. • Monitoring potential long-term socioeconomic impacts on vulnerable groups and providing social support if negative impacts are identified.		Sub-borrower

Ref.	Impact Description	Sensitive Receptor(s)	Management/ Mitigation Measure	Responsibility for Implementation of Mitigation Measure
20	Security Personnel	Communities	• Subborrower will ensure that security personnel have not been involved in past abuses and are adequately trained. Force will only be sanctioned in preventive or defensive circumstances in proportion to the threat and security will operate within the law; • The grievance mechanism will allow communities and workers to express concerns regarding security issues and behavior of security personnel.	Sub-borrower
Biodiversity Conservation and Sustainable Management of Living Natural Resources				
21	Disturbance on Biodiversity	Flora and fauna	• Ensure proper maintenance of existing exclusion fences around the siteUse appropriate signage to separate project access routes from other areas and restrict access by personnel and vehicles to designated areas. • No habitat, flora and fauna will be harmed by the Project activities.	Sub-borrower
Stakeholder Engagement and Information Disclosure				
22	Insufficient Stakeholder Engagement Activities and Public Consultation.	Communities	• Create channels for interaction and communication with local communities, ensuring that engagement activities are scheduled at convenient times. • Conduct regular consultations with relevant authorities and local communities to discuss subproject management and gather feedback.	Sub-borrower

Appendices

Appendix-1. Site Map



Appendix-2. Copies of Existing Permitting Documentation

Application Letter of EIA Decision



T.C.
BURSA VALİLİĞİ
Çevre, Şehircilik ve İklim Değişikliği İl Müdürlüğü



Sayı : E-56607814-220.03-10765486

Konu : ÇED Görüşü

BURSA SU VE KANALİZASYON İDARESİ GENEL MÜDÜRLÜĞÜNE
(Elektrik, Makine ve Malzeme İkmal Dairesi Başkanlığı)

İlgi : 18.10.2024 tarihli ve E-31874648-000-260456 sayılı yazınız.

Bursa İli, Yenişehir ilçesi, Gündoğan Mahallesi adresinde tapunun, 52 pafta, 373 ada ve 51 parsel numarasına kayıtlı alanda Yenişehir Atık Su Arıtma Tesisine 500 kW kurulu güce sahip Güneş Enerji Santrali (GES) kurulması planlanmaktadır. Bu tesis için UEDAŞ ile ekte sunulan Dağıtım Sistemine Bağlantı Anlaşması yapılmıştır ve kurumumuza ait İLBANK nezdinde kredi başvuru değerlendirme sürecimiz sürdüğü belirtilerek "0.78 hektar ve 0,5 MWe GES kapasiteli" projesi işinin (ÇED) Yönetmeliği hükümleri doğrultusunda değerlendirme yapılması ile dilekçe ile istenilmektedir.

İlgi: vazi ve ekindeki başvuru dosyası üzerinde yapılan inceleme neticesinde söz konusu adreste; 0.78 hektar alanda ve 0,5 MWe kapasiteli GES Projesi yapıldığı/yapılacağı beyan ve taahhüt edilmiş olup, 29.07.2022 tarih ve 31907 sayılı Resmi ve Gazetede yayınlanarak yürürlüğe giren Çevresel Etki Değerlendirmesi Yönetmeliği Çevresel Etkileri Ön İnceleme ve Değerlendirmeye Tabi Projeler (EK-2) kapsamında 41. maddesinde belirtilen "Proje alanı 2 hektar ve üzerinde veya kurulu gücü 1 MWm ve üzerinde olan güneş enerji santralleri (çatı ve cephe sistemleri hariç), Proje alanı 2 hektar ve üzerinde veya kurulu gücü 1 MWm ve üzerinde olan güneş enerji santralleri (çatı ve cephe sistemleri hariç)," sınır değerinin altında kalması nedeniyle, ÇED Yönetmeliği kapsamı dışında kaldığı belirlenmiştir.

Bilindiği üzere, ÇED Yönetmeliği ile gerçek ve tüzel kişilerin gerçekleştirmeyi planladıkları Yönetmelik kapsamına giren projelerin çevre üzerine yapabilecekleri bütün etkilerin belirlenerek değerlendirilmesi ve tespit edilen olumsuz etkilerin önlenmesi için Çevresel Etki Değerlendirmesi sürecinde uyulacak idari ve teknik usul ve esasların düzenlenmesi amaçlanmakta olup herhangi bir projenin ÇED Yönetmeliği kapsamı dışında bulunması, bu faaliyete yürürlükteki diğer mevzuat hükümlerinin uygulanmayacağı anlamını taşımamaktadır.

Bu itibarla; bahse konu projenin her aşamasında; 2872 sayılı Çevre Kanunu ve bu kanunda değişiklik yapılmasına dair 5491 Sayılı Kanun ve bu Kanuna bağlı olarak çıkartılan/çıkartılacak Yönetmeliklerin ilgili hükümlerine uyulması, Çevre Düzeni Planı ve Plan hükümlerine uyulması, ekolojik dengenin bozulmaması, çevrenin korunmasında gerekli hassasiyetin gösterilmesi, taahhütnamede belirtilen esaslara uyulması, diğer ilgili kurum ve kuruluşlardan mer'i mevzuat dahilinde gerekli ruhsat, onay ve izinlerin alınması, söz konusu faaliyetinizin gerek yatırım gerekse işletme döneminde mevcut durumunda değişiklik yapılması planlandığında yeniden Valiliğimiz (Çevre Şehircilik ve İklim Değişikliği İl Müdürlüğü) görüşünün alınması gerekmektedir. Bu yazının görüş niteliğinde olduğu ve herhangi bir izin yerine geçmediği hususunda,

Gereğini ve bilgilerinizi arz ederim.

Mehmet Ersan AYTAÇ
Çevre, Şehircilik ve İklim Değişikliği İl Müdürü V.

Bu belge, güvenli elektronik imza ile imzalanmıştır.

Connection Agreement

Evrenk İşletim ve Sayısı: 20/01/2021-1442

**ULUDAĞ
ELEKTRİK
DAĞITIM**



ULUDAĞ ELEKTRİK DAĞITIM A.Ş.
Elektrik Piyasa İşlemleri Yönetmeliği

Sayı : -

Konu : Dağıtım Sistemine Bağlantı Anlaşması Hk.

**T.C. BURSA SU VE KANALİZASYON İDARESİ GENEL MÜDÜRLÜĞÜ
(YENİŞEHİR ARITMA GES)
SIRAMEŞELER MAH. AVRUPA KONSEYİ BULVARI NO:6/3 D BLOK
OSMANGAZI / BURSA**

Bursa İli, Yenişehir İlçesi, Gündoğan Mahallesi adresinde T.C. BURSA SU VE KANALİZASYON İDARESİ GENEL MÜDÜRLÜĞÜ (YENİŞEHİR ARITMA GES) tarafından Lisanssız Elektrik Üretimi kapsamında yapılacak olan 0,5 MWe kurulu gücündeki Güneş Enerjisi tesisi projesi için yapılan "Dağıtım Sistemine Bağlantı Anlaşması" yazımız ekinde sunulmaktadır.

Bağlantı ve Sistem Kullanım Yönetmeliği'nin 7. Ve 14. Maddeleri ve İletim Sistemi Sistem Kullanım Anlaşması Cezai Şartlar başlıklı 9. Maddesinin (b) fıkrası gereğince; TEİAŞ nezdinde yapmış olduğumuz sistem kullanım anlaşmalarını revize etmemiz gerektiğinden üretim santralinizin test işlemlerine başlamadan ve devreye girmeden 2 ay öncesinde Dağıtım ve Bağlantı Hizmetleri Direktörlüğünden başvuru yapılması gerekmektedir.

Bilgilerinize rica ederiz.

Sevgi BATIK
Elektrik Piyasa İşlemleri
Yönetmeni

e-imzalıdır

Tayfun TUTAR
Dağıtım ve Bağlantı Hizmetleri
Direktörü

e-imzalıdır

Bilgi İletişim: Meliha Seymen
Dahili : 3284

EKLER :
Dağıtım Sistemine Bağlantı Anlaşması

Request for Extension of Connection Agreement

Evrak Tarih ve Sayısı: 04/03/2024-5530



ULUDAĞ ELEKTRİK DAĞITIM A.Ş. Üretim Tesisleri Yönetmenliği

Sayı : -
Konu : Ek Süre Talebi Hk. (YENİŞEHİR ARITMA GES)

T.C. BURSA BÜYÜKŞEHİR BELEDİYE BAŞKANLIĞI BURSA SU VE
KANALİZASYON İDARESİ GENEL MÜDÜRLÜĞÜ (BUSKİ)
SIRAMEŞELER MAH. AVRUPA KONSEYİ BULVARI NO:6/3 D BLOK OSMANGAZI /
BURSA

İlgi (a) yazınızda özetle Bursa İli, Yenişehir İlçesi, Gündoğan Mahallesi adresinde lisanssız elektrik üretimi kapsamında kurulması planlanan Güneş Enerji Santrali T.C. BURSA BÜYÜKŞEHİR BELEDİYE BAŞKANLIĞI BURSA SU VE KANALİZASYON İDARESİ GENEL MÜDÜRLÜĞÜ (YENİŞEHİR ARITMA GES) için Şirketimizle ile Dağıtım Sistemine Bağlantı anlaşması yapıldığı belirtilerek, Elektrik Piyasasında Lisanssız Elektrik Üretim Yönetmeliği Madde 19 Üretim tesislerinin işletmeye girmesi ve sistem kullanım başlığı altında 1. Fıkrasının (b) bendinde *"Bu Yönetmelik hükümlerine göre şebekeye bağlanacak üretim tesislerinin kabul işlemlerinin, bağlantı anlaşmasının imza tarihinden itibaren, 30 uncu maddenin yedinci fıkrası hükmü saklı kalmak kaydıyla;*

a) İlgili şebeke işletmecisine ait dağıtım trafosunu kullanan tüm üretim tesislerinde bir yıl,
b) İlgili şebeke işletmecisine ait dağıtım trafosunu kullanmayan,
1) Hidrolik kaynağa dayalı üretim tesislerinde üç yıl,
2) Diğer kaynaklara dayalı üretim tesislerinde iki yıl. içerisinde tamamlanması zorunludur" ibaresi gereği tesis yapım işlemlerinde yaşanan aksaklıklardan dolayı Bağlantı Anlaşması yapıldıktan sonraki üretim tesisinin devreye girmesi amaçlı Yönetmelikte verilen süreye ek olarak ek süre verilmesi talep edilmiş, ilgi (b) yazımız ile EPDK' ya süre uzatım talebinizin değerlendirilmesi talep edilmiştir.

İlgi (c) EPDK yazısı ekinde bulunan 22.02.2024 tarih ve 12442-32 sayılı Kurul Kararında süre uzatım talebinize ilişkin olarak *"Söz konusu talebin Elektrik Piyasasında Lisanssız Elektrik Üretim Yönetmeliğinin 19 üncü maddesinin birinci fıkrası hükmü kapsamında Kurul tarafından uygun bulunan haller kapsamında değerlendirilmesine ve T.C. BURSA BÜYÜKŞEHİR BELEDİYE BAŞKANLIĞI BURSA SU VE KANALİZASYON İDARESİ GENEL MÜDÜRLÜĞÜ (YENİŞEHİR ARITMA GES) ile Uludağ Elektrik Dağıtım A.Ş. arasında imzalanan Bağlantı Anlaşması' na 30/06/2025 tarihine kadar ek süre verilmesine"* karar verilmiş olduğu belirtilmiştir.

Land Allocation Letter



T.C.
YENİŞEHİR KAYMAKAMLIĞI
MALMÜDÜRLÜĞÜ

BURSA

05/11/2015

Sayı : 54365786-16170105650/435
Konu : Tahsis

BURSA BÜYÜKŞEHİR BELEDİYESİ BAŞKANLIĞINA
(Bursa Su ve Kanalizasyon İdaresi Genel Müdürlüğü)
(Emlak ve İstimlak Dairesi Başkanlığı)

İLGİ: 05/06/2015 tarih ve 9639 sayılı yazı.

İlçemiz Gündoğan Mahallesinde bulunan 373 ada, 51 parsel numaralı, 57.931,60 m² yüzölçümlü olarak Hazine adına kayıtlı olup, atık su arıtma tesisi olarak kullanılmak amacıyla Bursa Büyükşehir Belediye Başkanlığına (Bursa Su ve Kanalizasyon İdaresi Genel Müdürlüğü) tahsisli taşınmaz malın 12.000,00 m² lik kısmında, üretilecek elektriğin münhasıran Belediye hizmetlerinde kullanılması, ticari amaçta kullanılmaması, üçüncü kişilere ticari ya da gayri ticari amaçla kullandırılmaması/devredilmemesi, tahsisli idarenin ilgili mevzuatı ile belirlenen ve alınması zorunlu olan gelirler dışında her ne ad altında olursa olsun herhangi bir ücret alınmaması, tahsisli idare tarafından tahsis amacına uygun kullanım nedeniyle ticari amaçla yönelik ünitelerin söz konusu ve zorunlu olması durumunda ise Hazine Taşınmazlarının İdaresi Hakkında Yönetmeliğin 67, 70 ve 73/A maddelerine göre işlem yapılması, ayrıca 5346 sayılı Yenilenebilir Enerji Kaynaklarının Elektrik Üretimi Amaçlı Kullanımına İlişkin Kanun, 6446 sayılı Elektrik Piyasası Kanunu ile Enerji Piyasası Düzenleme Kurumu (EPDK) mevzuatı kapsamında ilgili idarelerden gerekli izinlerin alınması kaydıyla, güneş enerjisi panelleri yerleştirmek suretiyle elektrik üretimi yapmak amacıyla tahsis amacının değiştirilmesinin uygun görüldüğü, Maliye Bakanlığının (Milli Emlak Genel Müdürlüğü) bir örneği ekte gönderilen 13/10/2015 tarih ve 25101 sayılı yazısı ile bildirilmiştir.

Bilgilerini ve gereğini arz ederim.

Necat NALBANT
Malmüdürlüğü

EKİ: Yazı örneği (1 sayfa)

Appendix-3. Title Deed Information

BU BELGE TOPLAM 2 SAYFADAN OLUŞMAKTADIR BİLGİ AMAÇLIDIR.

Tarih: 22-3-2024-08:48



Kayıt Oluşturan: ŞAFAK KUNT (Bursa Su ve Kanalizasyon İdaresi Genel Müdürlüğü)

Tapu Kaydı (Hepsi)

TAPU KAYIT BİLGİSİ

Zemin Tipi:	AnaTasınmaz	Ada/Parsel:	373/51
Tasınmaz Kimlik No:	78880426	AT Yüzölçümü(m2):	57931.60
İl/İlçe:	BURSA/YENİŞEHİR	Bağımsız Bölüm Nitelik:	
Kurum Adı:	Yenişehir(BURSA)	Bağımsız Bölüm Brüt Yüzölçümü:	
Mahalle/Köy Adı:	GÜNDOĞAN Mah.	Bağımsız Bölüm Net Yüzölçümü:	
Mevki:	-	Blok/Kat/Giriş/BBNo:	
Cilt/Sayfa No:	13/1199	Arsa Pay/Payda:	
Kayıt Durumu:	Aktif	Ana Tasınmaz Nitelik:	HAM TOPRAK

TASINMAZA AİT ŞERH BEYAN İRTİFAK BİLGİLERİ

Ş/B/İ	Açıklama	Malik/Lehtar	Tesis Kurum Tarih-Yevmiye	Terkin Sebebi-Tarih-Yevmiye
Beyan	Diğer (Konusu: "Parsel Büyüğüne Koruma Alanı içerisinde, Onaylanmış İmar planları ile onaylı köy yerleşik alanları içerisinde kalmaması halinde 5403 Sayılı Kanun kapsamında izin alınmadan tarımsal üretim amacıyla kullanılamaz.") Tarih: 06/06/2023 Sayı: 9033362(Şablon: Diğer)	(SN:6916393) BURSA KADASTRO MÜDÜRLÜĞÜ VKN:1910560197	Yenişehir(BURSA) - 06-06-2023 16:54 - 11697	

1 / 2

MÜLKİYET BİLGİLERİ

(Hisse) Sistem No	Malik	El Birliği No	Hisse Pay/ Payda	Metrekare	Toplam Metrekare	Edinme Sebebi-Tarih-Yevmiye	Terkin Sebebi-Tarih-Yevmiye
222344547	(SN:47) MALİYE HAZİNESİ VKN:6110312806	-	1/1	57931.60	57931.60	İfraz İşlemi (TSM) 11-11-2013 7670	-

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

veya Web Tapu anasayfasından (<https://webtapu.tkgm.gov.tr> adresinden) vtuFM1U-rL kodunu Online İşlemler alanına yazarak doğrulayabilirsiniz.



Appendix-4. Photographic Log

Photo No: 01	
Date: 17.04.2025	
Location: Yenişehir WWTP	
Details/Notes: Subproject Area	
Photo No: 02	
Date: 17.04.2025	
Location: Yenişehir WWTP	
Details/Notes: Subproject Area	
Photo No: 03	
Date: 17.04.2025	
Location: Yenişehir WWTP	
Details/Notes: Existing Transformer	
Photo No: 04	
Date: 17.04.2025	
Location: Gündoğan Neighborhood	

Details/Notes: A person living in a tent	
Photo No: 05	
Date: 17.04.2025	
Location: Akdere Neighborhood	
Details/Notes: Mukhtar of Akdere Neighborhood	
Date: 17.04.2025	
Location: Gündoğan Neighborhood	
Details / Notes: Mukhtar of Gündoğan Neighborhood	

Appendix-5. Construction Notice Template

“Çevreye verdiğimiz rahatsızlıktan dolayı özür dileriz!”

**BURSA SU KANALİZASYON İDARESİ
YENİŞEHİR AAT GES ALTPROJESİ YAPIM İŞİ
İşin Süresi:**

Şikâyet, istek, soru ve yorumlarınız için:

YÜKLENİCİ :
ADI

Adres:

Telefon:

E-posta:

İletişim Formu:

İŞVEREN :

Adres:

Telefon:

E-posta:

İletişim Formu:

**İller Bankası A.Ş.
(İLBANK)**

Adres: İller Bankası A.Ş. Emniyet Mahallesi, Hipodrom
Caddesi No:9/21, Yenimahalle/ANKARA

Telefon: 0 (312) 508 79 79

E-posta: bilgiuidb@ilbank.gov.tr

İletişim Formu:

<https://www.ilbank.gov.tr/form/bilgiedinmeuluslararasi>



Appendix-6 E&S Incident Notification Form

1) Incident Details		
Date of Incident: [Please insert]	Time of Incident: [Please insert]	
Location of the Incident:	[Please insert]	
Sub-borrower Name:	[Please insert]	
Date Reported to ILBANK: [Please insert]	Reported to ILBANK by: [Please insert]	Notification Method: [Please insert]
Date Reported to WB: [Please indicate]	Reported to WB by: [Please insert]	Notification Type: [Please insert]
Contractor Name:	[Please insert]	
Sub-contractor name (please indicate if involved in the incident):	[Please insert]	
2) Type of incident (please check all that apply)		
☐ Fatality ☐ Lost time injury ☐ Child labor ☐ Forced labor	☐ Environmental pollution incident ☐ Disease outbreaks ☐ Acts of violence/protest ☐ Other	
3) Description/Narrative of Incident		
4) Actions taken to contain the incident		
For incidents involving a Contractor: Name of Contractor: _____ Have the works been suspended? Yes ☐ No ☐		
5) What support has been provided to affected people		
[Please briefly describe]		
6) Please provide the supporting documents for the incident, victims and involved persons		
(e.g. copies of the social security registration records, victim and witness statements, notification to authorities, legal investigation reports, training records, photographs, etc.)		

Appendix-7. Simplified Labor Management Procedure



Simplified Labor
Management Procedure

Appendix-8. Roles and Responsibilities

Party	Role	Key Responsibilities
Sub-borrower		
Sub-borrower	Sub-borrower Management	• Hold ultimate responsibility for the E&S performance of the subproject to the satisfaction of the ILBANK, including the performance of subproject contractors throughout the sub-financing agreement life cycle. • Establish Project Implementation Unit (PIU) following the execution of sub-financing agreements to carry out operational and administrative tasks to oversee the implementation of the E&S instruments and monitoring progress; allocate resources for the recruitment of in-house environmental, social and OHS staff under the PIU • Ensure that E&S instruments and procedures required by ILBANK is prepared within the timeframes agreed with ILBANK and allocate adequate financial and human resources – either from the Sub-borrower's own resources or from the Subproject loan and implement. • Cooperate with the ILBANK representatives to discuss and agree on the ESAP and other E&S covenants for incorporation into sub-financing agreements to be executed between the ILBANK and the sub-borrower (with support from RD E&S team as necessary) • Ensure that EHSS requirements of ILBANK are incorporated into relevant contractor tender and agreement documents to be prepared in collaboration with the construction supervision consultant • Hold and use the authority and responsibility to stop any subproject related work activity if it poses an imminent danger to health, safety, or the environment. • Allocate resource to ensure monitoring of subproject E&S performance and reporting to ILBANK at IFI standards in line with the sub-financing agreement conditions • Facilitate monitoring visits and audits by ILBANK and their consultants • Notify the ILBANK RD – E&S Teams of any significant E&S incident or accident within maximum 24 hours of the accident/incident; contractually require the supervision consultants and/or contractors to promptly report such incident and accidents (timeframe to be defined by ILBANK) • Prepare and submit a detailed E&S Incident Investigation Form, supplemented by an RCA to be conducted pursuant to GIIPs, to ILBANK within 15 days of the accident/incident date for significant accidents or incidents (in line with the template presented in the E&S Supervision, Monitoring and Reporting Procedure). The investigation will be supplemented by a Root Cause Analysis (RCA). • Prepare and submit semiannual E&S monitoring reports to ILBANK.
	E&S Team - Environmental staff - Social staff - OHS staff	• Participate in the training to be organized by ILBANK as part of ILBANK ESMS Training Procedure implementation • Ensure that E&S documentation required by ILBANK is prepared by qualified independent specialists and submitted to ILBANK for appraisal and credit. • Provide ILBANK with relevant adequate information to undertake the E&S due diligence in accordance with the ESMS (e.g. duly completed sub-borrower questionnaire and supporting documentation to be requested by ILBANK in accordance with the E&S Screening and Risk Classification and ESDD procedures) • Support the sub-borrower management as required in the review and evaluation of ESAP and other E&S covenants for incorporation into sub-financing agreements to be executed between the ILBANK and the sub-borrower • Ensure compliance of subprojects operations (including contractor activities on site) with national legislation and E&S requirements of the lending WB as included in the sub-financing agreements, ESAP and subproject-specific E&S documentation.

Party	Role	Key Responsibilities
		• Undertake monitoring of subproject E&S performance and reporting to ILBANK at WB standards in line with the sub-financing agreement conditions • Ensure implementation of corrective actions in case of E&S non-compliances in coordination and agreement with ILBANK DG and RD E&S teams over reasonable timeframes • Coordinate the construction supervision consultants, contractors and/or external E&S consultants for collection of the monitoring data and compilation of or providing input to periodic monitoring reports as necessary and appropriate • Allow ILBANK representatives (including individual consultants) to access subproject facilities and records
Construction Supervision Consultants ("Müşavir")	Management and E&S staff	Carry out the following tasks on behalf of the sub-borrowers: • Participate in the training sessions to be organized by sub-borrowers in line with the requirements of ILBANK ESMS Training Procedure • Supervise the construction works of contractors on-site, including implementation of subproject-specific E&S requirements by contractors on a daily basis • Ensure sufficient E&S capacity for implementation of E&S requirements as set out in the sub-financing agreements between the sub-borrower and ILBANK • Support the sub-borrowers for the supervision and review of E&S management documentation prepared by construction contractors and submit them to sub-borrowers upon finalization • Review monthly self-monitoring reports prepared by the construction contractors for early identification of E&S issues and/or non-compliances and submit them to municipalities/municipal utilities upon finalization • Prepare and submit regular monthly reports to Sub-borrower on the environmental, social and OHS issues of the Sub-Project during the construction phase • Identify E&S non-compliances on site and enforce construction contractors to undertake corrective actions within defined and agreed timeframes • Support the sub-borrowers (as requested) in the preparation of periodic E&S monitoring reports to be submitted to ILBANK in line with the ILBANK E&S Supervision, Monitoring and Reporting Procedure • Notify the sub-borrower of any significant E&S incident or accident that have taken place in subproject related operations within 24 hours.
Construction Contractor	Management and E&S staff	• Ensure sufficient E&S capacity for implementation of E&S requirements as set out in the construction contracts • Participate in the training sessions to be organized by sub-borrowers in line with the requirements of ILBANK ESMS Training Procedure • Prepare subproject-specific E&S management plans and procedures prior to start of construction works as required by the construction contracts • Comply with the requirements of national legislation and implement the E&S requirements as set out in the sub-financing agreements (executed between ILBANK and the sub-borrowers) and construction contracts • Submit periodic (in frequencies to be set by ESAP) E&S self-monitoring reports to the municipalities/municipal utilities through construction supervision consultants ("müşavir") – in line with the format provided by ILBANK. • Fill in monthly occupational health and safety (OHS) forms – reviewed by construction supervision consultants. • Implement corrective actions in case of E&S non-compliances under the supervision of sub-borrower's construction supervision consultant • Promptly notify the sub-borrower of any significant E&S incident or accident that have taken place in subproject related operations (timeframe to be defined by ILBANK no later than 24 hours).

Appendix-9. Chance Find Procedure

Introduction

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

Scope

This Chance Find Procedure (CFP) will be implemented for Yenişehir WWTP SPP Subproject in order to manage any chance finds that may be encountered during the construction activities. The purpose of the CFP document is to:

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

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

- topsoil stripping
- excavation and earthworks

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

Legislation and Standards

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

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

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

- all natural assets and immovable cultural assets constructed up until the end of the 19th century,
- any immovable cultural asset from after the end of the 19th century, identified by the Ministry of Culture and Tourism as an important asset worthy of preservation,
- all immovable cultural assets located within archeological sites,
- buildings/areas that have witnessed significant historical events during the National War and the foundation of the Turkish Republic and dwellings that have been used by Mustafa Kemal ATATÜRK, regardless of time and registration.

The Ministry of Culture and Tourism is the responsible body to take decisions for protection of cultural heritage in Turkey at the national level. As part of the Ministry, the High Commission for the Protection of Cultural Assets is responsible for protecting and restoring immovable cultural assets.

Implementation of the decisions and regulations issued by the Ministry are undertaken by local administrations. At local level, there are Cultural Assets Protection Regional Boards defined by the

Ministry of Culture and Tourism, which are responsible for preservation, registration and classification of cultural heritage within their respective jurisdictions. The relevant Regional Board for the project is the Bursa Cultural Heritage Protection Regional Board Directorate.” According to Law 2863, all the natural and cultural assets qualified for legal preservation are properties of the State. Therefore, regional boards have the power and authority to provide legal protection to the preservation sites and to approve or reject all the activities, which have potential negative impacts on the preservation sites such as construction, demolition and excavation activities.

Roles and Responsibilities

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

Role	Responsibilities
Contractor - Project Manager	- Overall responsibility for the development, review, approval and coordination of the numerous activities required to initiate, conduct and complete construction. - Ensure that this procedure is prepared, and updated as required, based on the activities undertaken as part of the project. - Ensure that adequate resources are made available to implement the procedures and guidelines outlined in this procedure.
Contractor - Environmental and Social (E&S) Expert	- Initiation, development, implementation and coordination of the CFP during construction. - Ensure that adequate training is given to all site personnel and sub-contractors, covering the procedures and guidelines outlined in this procedure. Establish appropriate control procedures and conduct audits as necessary. - Consultation with and reporting to relevant government bodies in case of potential archeological chance finds. - Record all confirmed chance finds by filling up the “Chance Find Reporting Form” and maintain copies in a log-book. Ensure that the chance finds log-book is up to date.
Contractor - Site Manager	- Day-to-day implementation of the provisions of the CFP in the field during construction. - Notify the E&S Expert regarding potential chance finds during construction.
Employees	- Understand and comply with archeological chance finds procedures and guidelines outlined in this procedure. - Reporting of the potential chance finds to the Site Manager.

Impact Avoidance and Mitigation

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

- All staff involved in land clearance and excavation activities will take the responsibility for managing archaeological protection and will be trained in these aspects by the E&S Expert.
- In case any potential chance find is encountered, all construction activities will cease immediately in the vicinity of the chance find.
- The Site Manager will be contacted immediately. The discovered site location, the characteristics of the potential archaeological material and photos will be recorded by the Site Manager, who in turn will inform the E&S Expert.
- Bursa Museum Directorate will be notified at the latest within three days after the chance find is encountered. Contact details of the Bursa Museum Directorate are given below:
Address: Gaziakdemir Mah. Çekirge Cad. No:4/11 Kültürpark içi 16050 Osmangazi/BURSA
Telephone: (0224) 234 49 18
E-mail: bursamuzesi@ktb.gov.tr

- The site and its vicinity will be secured 24 hours a day against damage or loss, until inspection by the authority.
- The E&S Expert will fill up a “Chance Find Report Form” for each confirmed chance find and inform the Project Manager about the date that the construction work can resume, which is determined by the authorities concerning the conservation of the heritage.
- Further steps to be followed and proper plan to be implemented for the management of the finds (Changes in the layout, conservation, preservation, restoration and salvage) will be decided and reported in writing by the authorities in charge.
- Photographs of the potential artifacts that are likely to be encountered in the construction site are presented in the following pages to be used during the training of the relevant staff.

Verification and Monitoring

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

Reporting

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

Yenişehir WWTP SPP Subproject Chance Find Reporting Form		
REGISTRATION		
Name of recorder:		
Date and time of discovery:		
Site Name:	Coordinates	
	X	Y
Description of find:		
Photograph:		
Estimated weight and dimensions:		
CONTACT PERSON		
Name/Title/Duty:		
Date and Time:		
Contact information:		
Details of conversation:		
DECISIONS		
Any protection measures to be implemented:		
Movable or immovable: If moved, please specify the new location.		
Further actions required:		
Recommence date and time:		
Notes:		
SUBMISSION		
Name:	Date:	

Appendix-10. Change Notification Form

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

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

**Yenişehir Wastewater Treatment Plant (WWTP) Solar Power
Plant of BUSKİ**

MINUTES of STAKEHOLDER CONSULTATION MEETING

**Revision : Rev01
Submission : November 2025**

1. STAKEHOLDER CONSULTATION MEETING

Yenişehir Wastewater Treatment Plant (WWTP) Solar Power Plant Project of BUSKI will be financed under Türkiye Public and Municipal Renewable Energy Project (PUMREP). Following the finalization of the ESMP-Checklist, a Stakeholder Consultation Meeting was held on 30 October 2025 at 14.00 hour. The meeting lasted for 90 minutes and ended at 15:30, with the participation of 18 people, 12 men and 6 women. 7 of the participants are BUSKI staff, 2 are Municipality staff, 3 are mukhtars (from Gündoğan, Ulucami, and Hıdırbalı neighborhoods), 4 are residents of the Yenişehir district, and 2 are experts from ILBANK Bursa Regional Directorate.

The announcement for the Stakeholder Consultation Meeting was published on the official website of BUSKI, and brochures were distributed to the neighborhood mukhtar in the subproject impact area and posted in the relevant mukhtar offices. In addition, brochures were delivered to households, and support was requested from the mukhtar to disseminate the announcement to local residents. The announcement text was also published in one national and one local newspaper. Furthermore, invitation e-mails were sent to two businesses located within the subproject impact area (Şişecam and Venüs Bisküvi). These activities were carried out to ensure broad and transparent communication regarding the Stakeholder Consultation Meeting.

During the meeting, the participants were informed about the scope of the subproject, the environmental and social impacts, and the measures planned to address these impacts.

During the question-and-answer session of the Stakeholder Consultation Meeting, participants - including neighborhood mukhtar and local residents - raised questions about the subproject start date, traffic safety due to children of seasonal workers, the scope of the SPP investments, and loan eligibility for villages. Representatives explained that the bidding process will begin after credit procedures are completed and that the construction period is expected to last approximately 6 weeks. It was noted that no major construction activities will take place at the site, and traffic will only occur during the short panel transportation period, minimizing accident risks. Participants were informed that SPP investments are being carried out across many BUSKI facilities, and this subproject was selected due to its technical suitability, with the possibility of similar investments at other facilities in later stages. Additionally, it was clarified that while BUSKI receives financing for this investment, villages may also benefit from loans through the Provincial Special Administration.

This MoM contains details of SCM's announcement, questions from stakeholders, and answers.

1.1.Question & Answer Session

In this sub-section, the opinions, requests and questions of the participants and the relevant answers received during the Stakeholder Consultation Meeting have been presented. The details are as follows:

Question 1:

Öm A**** Mukhtar of Gündoğan Neighborhood:** When will the project start?

Answer 1:

Ha* F***** K***** BUSKI Workshops, Maintenance, Repair, and Energy Facilities Engineer in Charge:** After the borrowing processes are completed, the bidding process will begin and the construction period will last approximately 6 weeks.

Question 2:

Ö* A**** Mukhtar of Gündoğan Neighborhood:** Considering that there are many children of seasonal workers, how will traffic be managed? Is there a risk of accidents?

Answer 2:

H** F***** K***** BUSKI Workshops, Maintenance, Repair, and Energy Facilities Engineer in Charge:** There will be no major construction activities carried out during the subproject. Traffic will only occur during the transportation of the panels, and this will be a short process. There will be no continuous movement of construction machinery.

Question 3:

B** D**** BUSKI Personnel:** Will the SPP projects be for all of BUSKI's facilities?

Answer 3:

H** F***** K***** BUSKI Workshops, Maintenance, Repair, and Energy Facilities Engineer in Charge:** SPP investments are being made at many of BUSKI's facilities. This subproject is independent of other

facilities; this facility was chosen because its conditions were suitable. There is also the possibility of it being implemented at other facilities in later stages.

Question 4:

Z* B**** Mukhtar of Hıdırbalı Neighborhood:** Does İLBANK only provide loans to institutions such as BUSKI, or can villages also obtain loans?

Answer 4:

Z** C**** Social Specialist, İLBANK Bursa Regional Directorate:** Villages can benefit from credits through the Provincial Special Administration.

2. Participants List

[illegible]

3. Stakeholder Consultation Meeting (SCM) Announcements on Local and National Newspapers and Kayseri Metropolitan Municipality Official Website & Announcement Brochure of the Sub-Project Distributed the Stakeholders

Announcement of BUSKİ Official Website



[Kurumsal](#) [Rapor ve Kararlar](#) [Tesisler](#) [Teknoloji](#) [Gündem](#) [İletişim](#)

[Anasayfa](#) > [Gündem](#) > [Duyurular](#) > [BUSKİ Yenişehir Atıksu Arıtma Tesisi \(AAT\) Güneş Enerji Santrali](#)

BUSKİ Yenişehir Atıksu Arıtma Tesisi (AAT) Güneş Enerji Santrali

[Çevresel ve Sosyal Yönetim Planı \(ÇSYİP/ESMP\)/TR](#)
[Çevresel ve Sosyal Yönetim Planı \(ÇSYİP/ESMP\)/ENG](#)
[Paydaş Katılım Planı \(PKP/SEP\)/TR](#)
[Paydaş Katılım Planı \(PKP/SEP\)/ENG](#)
[BUSKİ Yenişehir Atıksu Arıtma Tesisi \(AAT\) Güneş Enerji Santrali Broşür](#)
[BUSKİ Yenişehir Atıksu Arıtma Tesisi \(AAT\) Güneş Enerji Santrali MİB Gazete Yayını](#)
[BUSKİ Yenişehir Atıksu Arıtma Tesisi \(AAT\) Güneş Enerji Santrali Yerel Gazete Yayını](#)
[BUSKİ Yenişehir Atıksu Arıtma Tesisi \(AAT\) Güneş Enerji Santrali Duyuru Metni](#)

 Çarşamba, 15 Ekim 2025

Çevresel ve Sosyal Etkilerin Azaltılması ve İzleme

Alt-proje süresince ortaya çıkabilecek çevresel ve sosyal etkilerin en aza indirilmesi amacıyla Çevresel ve Sosyal Yönetim Planı-Kontrol Listesi ile Paydaş Katılım Planı hazırlanmıştır.

Bu kapsamda:

- İnşaat faaliyetlerinden kaynaklanan toz, gürültü ve atık oluşumu kontrol altına alınacaktır.
- Trafik güvenliği sağlanacak, çalışanlar için güvenli koşullar oluşturulacaktır.
- Hassas/dezavantajlı bireylerin ve grupların ihtiyaçları ayrıca gözetilecektir.

Tüm süreç BUSKİ, müşavir ve yüklenici tarafından düzenli olarak izlenecek, bağımsız denetimlerle kontrol edilecektir.



Paydaş Katılımı ve Şikâyet Mekanizması

Alt-projenin yürütülmesinde şeffaflık ve katılımcılığın esas alınması amacıyla alt-proje özelinde bir Paydaş Katılım Planı hazırlanmış, halkın görüş, öneri ve şikâyetlerini iletebileceği yine alt-proje özelinde bir Şikâyet Mekanizması kurulmuştur.

Başvurular tarafsız, hızlı ve özenli bir şekilde değerlendirilecektir. Uygulamadan BUSKİ sorumludur.

İletişim Kanalları:

☎ 0224 270 24 00 – Alo 185

🌐 buski.gov.tr/iletisim/alo185

✉ buskigm@hs01.kep.tr

📍 Sırameşeler Mah. Avrupa Konseyi Bulvarı
No:6/3 D Blok, 16190 Osmangazi / BURSA

İLBANK Finansal Kurumlar ve Yatırımcı

İlişkileri Daire Başkanlığı İletişim:

☎ 0 (312) 508 79 79

☎ 0 (312) 508 79 80

🌐 [https://www.ilbank.gov.tr/form/](https://www.ilbank.gov.tr/form/bilgiedinmeuluslararası)

bilgiedinmeuluslararası

✉ uidbbilgi@ilbank.gov.tr

✉ pybsosyal@ilbank.gov.tr

📍 Emniyet Mah. Hipodrom Cad. No:9/21,
Yenimahalle / ANKARA



BUSKİ Yenişehir Atık Su Arıtma Tesisi Güneş Enerji Santrali (0,66 MWp/0,50 MWe)

Türkiye Kamu Ve Belediye Yenilenebilir Enerji Projesi

Bilgilendirme Broşürü

Tarih ve Saat: 30.10.2025 / 14:00

Yer: Yenigün Mahallesi Kozdere Cad.

Yenişehir Belediyesi Şehit Astsubay Ömer

HALİSDEMİR Kültür Merkezi (Eski Santral

Park İçi) Yenişehir/BURSA



Alt-Proje Tanıtımı

Yenişehir Atıksu Arıtma Tesisi Güneş Enerji Santrali (GES) Alt Projesi, Bursa İli Yenişehir İlçesi Gündoğan Mahallesi sınırları içerisinde hayata geçirilecektir.

Yaklaşık 7.000 m²'lik alanda 2.000 adet monokristal panel kurulacak olup, toplam kurulu güç 660 kWp, bağlantı gücü 500 kWe ve yıllık elektrik üretim kapasitesi 876 MWh olacaktır.

İnşaat süresinin yaklaşık 6 hafta, işletme ömrünün ise 25 yıl olması öngörülmektedir.

Alt-proje, mevcut AAT sahasında gerçekleştirilecektir. Bu bakımdan sahaya erişim yolu için mevcut yollar kullanılacaktır. Ayrıca, arazi edinimi gerekmemektedir.

Proje Finansmanı

Alt-proje, Dünya Bankası tarafından finanse edilen Türkiye Kamu ve Belediye Yenilenebilir Enerji Projesi kapsamında İller Bankası A.Ş. aracılığıyla finanse edilmektedir.

Alt-proje kapsamında Çevresel ve Sosyal Yönetim Planı (ÇSYP)- Kontrol Listesi ve Paydaş Katılım Planı (PKP) hazırlanmıştır.

Alt-proje sahibi ve yürütücüsü BUSKİ Genel Müdürlüğü'dür.

Alt-Projenin Amacı ve Faydaları

Alt-proje ile yenilenebilir enerji kullanımı artırılacak, tesisin elektrik ihtiyacının karşılanması sağlanacak ve işletme maliyetleri düşürülecektir.

Bu sayede:

- Karbon emisyonlarının azaltılması,
- Enerji arz güvenliğine katkı,
- Yerel istihdamın desteklenmesi,
- Belediyemize ekonomik katkı sağlanması hedeflenmektedir.

Alt-proje alanını gösterir uydu haritası aşağıda verilmiştir.



Çevresel ve Sosyal Etkiler

Yenişehir Atıksu Arıtma Tesisi Güneş Enerji Santrali (GES) Alt Projesi kapsamında çevresel ve sosyal etkiler ortaya çıkabilir.

Bu etkiler, inşaatın niteliğine, yerleşim yerlerine olan yakınlığına ve mevcut altyapı koşullarına göre değişiklik gösterebilir.

- Çevresel etkiler arasında; inşaat sürecinde toz, gürültü, atık oluşumu ve trafik yoğunluğu yer alabilir.

- İnşaat sürecinde ayrıca geçici erişim kısıtlamaları, gürültü, trafik akışında aksamlar ve yerel halk açısından rahatsızlık yaratabilecek çalışma saatleri gibi olumsuz sosyal etkiler yaşanabilir.

Alt-proje kapsamında hazırlanan Çevresel ve Sosyal Yönetim Planı (ÇSYP)-Kontrol Listesi ile Paydaş Katılım Planı (PKP) BUSKİ'nin resmi internet sitesinde yayınlanmıştır.

ÇSYP-Kontrol Listesi ve PKP için;



4. Photographs From SCM









