**Republic of Turkey**

**Ministry of Transport and Infrastructure**

**Rail Logistics Improvement Project (RLIP)**

**TERMS OF REFERENCE**

**For Consulting Services for Revision of the Environmental and Social Impact Assessments, Resettlement Action Plans, Stakeholder Engagement Plans and Environmental and Social Management Plans of Filyos and Çukurova Last-Mile Rail Connectivity Infrastructure Projects**

1. Introduction and Background

The Republic of Turkey achieved strong economic and social development performance since 2000, leading to increased employment and incomes. More recently, growing economic vulnerabilities and a more challenging external environment are threatening to undermine these achievements. Turkey has maintained a long-term focus on implementing ambitious reforms in many areas, and government programs have targeted vulnerable groups and disadvantaged regions. The poverty incidence more than halved over 2002-15, and extreme poverty fell even faster. During this time, Turkey urbanized dramatically, maintained strong macroeconomic and fiscal policy frameworks, opened up to foreign trade and finance, harmonized many laws and regulations with European Union (EU) standards, and greatly expanded access to public services.

Turkey, owing to her advantageous geostrategic positioning between Europe and Asia, has a strong potential to become a major regional logistics hub. Nevertheless, failure to develop the physical infrastructure of railways and maritime transport in a timely manner in response to the increased demand for transportation, inadequate institutional capacity and the current fact that highway transportation is the most efficient transportation mode for door-to-door transportation, have led to the intensification of freight and passenger transportation on the road network.

Turkey’s global standing in logistics performance has deteriorated over the past six years, signaling an urgent need to attain further improvements and reverse this negative trend. As early as 2012, Turkey was ranked as the 27th best-performing economy in international logistics by the World Bank’s Logistics Performance Index (LPI), a position that has steadily weakened since—to 30th in 2014, 34th in 2016, and 47th today. Much of the lost ground stems from relative under-performance in infrastructure provision and small market scale as well as the quality of logistics services, particularly in the railways.

Improvements in containerized rail intermodal transport and other forms of rail-based logistics are expected to boost economic dynamism and support job creation in Turkey. By enhancing access to domestic and international markets through improved connectivity, railway infrastructure investments are recognized as direct drivers of rail adoption and indirect drivers of sustainable economic growth. These investments are becoming even more strategically relevant now as a policy lever to support Turkey’s medium- and long-term economic recovery in the aftermath of the COVID-19 pandemic.

The **Rail Logistics Improvement Project (RLIP)**, financed by the World Bank and implemented by the Ministry of Transport and Infrastructure (MoTI) through its Directorate-General of Infrastructure Investments (DGII), aims to increase rail freight efficiency in Turkey by improving last-mile rail infrastructure connectivity (LMC), enhancing the operational efficiency of rail-enabled logistics centers, and strengthening institutional capacity in the rail intermodal and freight logistics sector. The project is developed around three main components:

* **Component 1:** Construction of Railway Branch Lines and Multimodal Connections at Priority Network Nodes,
* **Component 2:** Feasibility Studies, Detailed Engineering Designs, Environmental and Social Documentation, and Construction Supervision for Rail Last-mile Connectivity Infrastructure at Additional Freight Nodes,
* **Component 3:** Phase 2 COVID-19 Response Support, Institutional Strengthening, Capacity Building, and Project Implementation Support, MoTI’s Directorate-General of Infrastructure Investments (DGII) has been given overall implementation responsibility of RLIP and will serve as its implementing agency at the working level. A **Project Implementation Unit (PIU)** has been established within DGII to oversee all aspects of project implementation across all 3 components.

The risk assessment of the project is identified as “Substantial” in accordance with the World Bank Environmental and Social Framework (ESF). Therefore, despite the fact that the sub-projects haves an Environmental Impact Assessment (EIA) exemption as per national legislation, Environmental and Social Impact Assessments (ESIAs), Resettlement Action Plans (RAPs), Stakeholder Engagement Plans (SEPs) and Environmental and Social Management Plans (ESMPs) have been developed in compliance with the World Bank ESF and its Environmental and Social Standards (ESSs) for the Filyos and Çukurova last-mile rail connectivity construction subprojects based on engineering designs developed during project preparation. World Bank Group (WBG) General Environmental, Health, and Safety (EHS) Guidelines and Industry Sector EHS Guidelines for Railways, Toll Roads, and Electric Power Transmission and Distribution have been applied for the identification of measures to address Environmental and Social (E&S) risks. In addition to the ESIAs, RAPs, SEPs and ESMPs, there are 12 additional sub-management plans prepared for the Filyos and Çukurova railway construction subprojects as part of the ESIA package: Construction Impacts Management Plan, Community Health and Safety Management Plan, Community Relations Management Plan, Employment and Training Plan, Aggregate Management Plan, Traffic (Transportation) Management Plan, Cultural Heritage Management Plan, Pollution Prevention Plan, Waste Management Plan, Emergency Preparedness and Response Plan, Occupational Health and Safety Management Plan, and Biodiversity Management Plan.

The ESIA site studies were completed in January and February 2020. The ESIA Reports were disclosed in May 2020[[1]](#footnote-2). The ESIAs identified environmentally, socially and culturally sensitive areas located within the area of influence of project activities, and recommended measures and/or alterations to the project design. The ESIA reports also specified current information and data gaps in relation to biodiversity and cultural hotspots and suggested studies to be undertaken to inform the assessments and proposed mitigation measures, which will be incorporated into the final railway design.

The ESIA reports of Filyos and Çukurova subprojects give a detailed information on the locations and descriptions of these sub-projects. In addition, the priority shall be given to the final detailed design documents that will be prepared by the Supervision Consultants of both Filyos and Çukurova sub-projects as a reference. The reports and documents are listed below as a reference to this Terms of Reference (ToR).;

* Environmental and Social Management System (ESMS) of Railway Logistics Improvement Project including Stakeholder Engagement Plan and Labor Management Procedure (to be announced on DGII website),
* Çukurova Region and İskenderun Bay Railway Connection Project Environmental and Social Impact Assessment (ESIA) Report,<https://aygm.uab.gov.tr/uploads/pages/dunya-bankasi-turkiye-de-demiryolu-lojistigini-gel/esia-cukurova-revised-8-may-2020-clean-revised-110520-cc-14052020.pdf>
* Filyos Port/Industrial Zone Connections Environmental and Social Impact Assessment (ESIA) Report,<https://aygm.uab.gov.tr/uploads/pages/dunya-bankasi-turkiye-de-demiryolu-lojistigini-gel/esia-filyos-revised-14052020.pdf>
* Çukurova Region and İskenderun Bay Railway Connection Project Environmental and Social Management Plan (ESMP) and Biodiversity Management Plan (BMP),
* Filyos Port/Industrial Zone Connections Environmental and Social Management Plan and Biodiversity Management Plan (BMP),
* Environmental and Social Commitment Plan (ESCP),

<https://aygm.uab.gov.tr/uploads/pages/dunya-bankasi-turkiye-de-demiryolu-lojistigini-gel/environmental-and-social-commitment-plan-escp.pdf>

* Filyos Port/Industrial Zone Connections Resettlement Action Plan (RAP),
* Filyos Port/Industrial Zone Connections Stakeholder Engagement Plan (SEP),
* Çukurova Region and İskenderun Bay Railway Connection Project Resettlement Action Plan (RAP),
* Çukurova Region and İskenderun Bay Railway Connection Project Stakeholder Management Plan (SEP),
* Official letters received during ESIA preparation and after disclosure, any grievances or feedbacks received,
* Final detailed design documents to be prepared by Supervision Consultants of Filyos and Çukurova subprojects (to be provided by DGII).

1. Objective of the Assignment

Consultant shall perform all Services which are and may be required in accordance with the Contract to achieve the following main objectives:

* Give the trainings to DGII PIU team as per the requirements within the Scope of this ToR.
* Revise and update the ESIA Reports including ESMPs/RAPs/SEPs of Filyos and Çukurova Projects that were disclosed in May 2020 on the DGII website, in compliance with the requirements of the World Bank’s Environmental and Social Framework (ESF) and its Environmental and Social Standards (ESSs), which were prepared based on the preliminary design. Since the detailed design will be prepared once the Supervision Consultant is on board, refer to the below main commitments as a guidance within the scope of this ToR.
  + Undertake required additional environmental and social screening/assessments and studies, as specified in the below items, for the Çukurova and Filyos railway sections;
    - provide update to the ESIA reports, ESMPs, RAPs and SEPs and GIS maps in electronic format,
    - inform DGII to incorporate findings into the detailed design,
    - the update of the ESIA reports and ESMPs shall include consideration of E&S risks of associated facilities (substations and electricity transmission lines), approach to alternative analyses, E&S assessment of project facilities (quarry sites etc.) in a form and substance way acceptable to the World Bank.
  + Work in collaboration with DGII while obtaining the permit for the Burnaz Spring Groundwater Protection Area from State Hydraulic Agency (DSI) prior to the finalization of the detailed design so that the E&S aspects are considered and reflected in the final design or in an either way while working on the detailed design to avoid the Burnaz Spring Groundwater Protection Area,
  + Update the Filyos and Cukurova ESIA reports to incorporate the post-mitigation operational phase noise modeling after design of the mitigation measures (barns, noise barriers) prior to the finalization of the detailed design,
  + Update and revise each subproject specific RAP, disclose, consult with land owners/users and stakeholders in coordination with PIU Social Development Specialist,
  + Update and revise each subproject specific SEP, disclose and inform the stakeholders including the Grievance Mechanism (GM) to be implemented throughout project implementation, in coordination with PIU Social Development Specialist,
  + Finalize biodiversity data collection by undertaking additional studies as committed and update the ESIA reports, ESMPs and detailed design accordingly, as specified below Filyos railway section:

- Survey on otter population and habitat preference

- Migratory birds’ seasonal study

Çukurova railway section:

- Survey to obtain seasonal data to update the critical habitat assessment for migratory birds

* + Communicate and collaborate effectively with DGII so that Detailed Design is revised to ensure the avoidance of:
    - Critical habitat area for species identified in the ESIA report (Sternbergia ulchella)
    - If additional study confirms so, critical habitat for migratory birds,
    - If no permit from DSI, Burnaz Spring Groundwater Protection Area,
  + Update Filyos and Cukurova ESIA reports and Biodiversity Management Plans as sub-management plans annexed to the ESMPs.
  + Review the draft detailed design, evaluate if there is a requirement to conduct additional site assessments that might be required for the update of the existing ESIA package prior to the finalization of the detailed design and coordinate with DGII PIU environmental and social specialists.
  + Communicate and collaborate effectively with DGII to ensure that Detailed Design is revised to avoid the impacts and DGII can obtain authority permits on the following cultural heritage sites and update respective Cultural Heritage Management Plans (CHMPs) as sub-management plans annexed to the ESMPs:

- Isus Ancient Waterway

- Ancient City of Issos

- Sazkoy site

- Oteyuz Mahallesi site

- Ancient City of Tios

1. Scope of Work for the revision, update, disclosure of the ESIA package of Filyos and Çukurova Subprojects

The tasks explained below shall be conducted and completed as per the schedule and mitigation measures required by the existing project ESIA reports, ESMPs, RAPs and SEPs, specifically the ones under the responsibility of DGII to be completed before and in parallel with the final detailed design such as the biodiversity seasonal data collection and site surveys. The Consultant shall prepare and submit the overall schedule for the tasks with respect to each environmental and social aspect considering the final detailed design requirements. The Supervision Consultant is expected to be arriving after March 2022. Therefore, to ensure that the seasonal site surveys and data collection is completed on time before the start of the construction, **the first task** of this assignment shall be the seasonal biodiversity site surveys, data collection, seed collection and translocation, where necessary. The ecological impact assessment, critical habitat assessment and biodiversity monitoring plan shall be revisited once the final detailed design is completed by the Supervision Consultant and shall be revised and updated to reflect the current nature of the project sites. **The second task** of the Consultant is to review the existing ESIA reports, RAPs, SEPs, ESMPs of Filyos and Çukurova Projects and update the ESIA package as explained further within this ToR, in coordination with DGII PIU, who has to ensure the approval and no objection of IBRD E&S Team. Once all the documents are approved, the Consultant shall prepare the deliverables as mentioned in the ***reporting and deliverables section*** below and ensure the updated ESIA package are disclosed on the DGII’s website and stakeholder consultations are carried out in collaboration with the PIU’s E&S specialists. Besides, the Consultant shall update the ESIA package in line with the feedbacks received during the consultations, which will be the final version of the ESIA package to be announced on the DGII website. **The third task** of the Consultant, however one of the first as per the overall schedule is the trainings planned and defined within the scope of this ToR in order to improve the capacity of the DGII PIU with respect to mainly E&S aspects.

The Consultant will provide consulting services on behalf of DGII and in the execution of the E&S studies and preparation and/or update of the ESIA package, the Consultant shall follow the related laws and regulations of Turkey (not limited thereto) as defined in the ESIA Report, as well as including, but not limited to the below relevant standards and guidelines:

* + World Bank ESF and Guidance Notes for Loan Beneficiaries,
  + WBG General Environmental, Health and Safety (EHS) Guidelines,
  + WBG EHS Guidelines for Railways,
  + WBG EHS Guidelines for Toll Roads,
  + WBG EHS Guidelines for Electric Power Transmission and Distribution, and
  + WBG EHS Guidelines for Construction Materials Extraction.

The requirements of the EHS Guidelines will be applied to the tasks. In such cases where the level of requirements and required measures in Turkey differ from those required in the EHS Guidelines, more stringent requirements shall apply in accordance with project specifications (such as the strict discharge and emission standards) as per the ESSs of the World Bank ESF. In preparing the relevant environmental and social studies and documents, the Consultant will fully comply with the ESS requirements. In accordance with accepted international practice, including but not limited to survey forms, accreditation certificates, method statements, monitoring of environmental, social, occupational health and safety, gender-based violence (GBV), sexual exploitation and abuse/sexual harassment (SEA/SH), cultural heritage, community safety, and biodiversity impact risks; monitoring of all proper permits at each phase of its activities while carrying out the tasks.

* 1. General Approach

The Consultant shall review existing ESIA package disclosed on the website of DGII. The review will guide the Consultant while updating the ESIA reports and ESMPs, which shall include consideration of E&S risks of associated facilities (substations and electricity transmission lines), approach to alternative analyses, E&S assessment of project facilities (quarry sites etc.) in a form and substance way acceptable to the World Bank and propose supplementary work to be carried out, where deemed necessary such as any missing analysis (i.e. NOx, SOx which could not be finalized due to Covid-19 restrictions in the existing ESIA package), the additional analysis, modelling studies, social survey studies, consultations that could be required due to route changes and design changes including the substations, transmissions lines, quarry sites etc. as per the final detailed design and with the identification of in coordination with DGII PIU and by obtaining the approval of DGII PIU E&S specialists. The proposed and additional activities to be carried out as per the existing ESIA Reports, ESMPs, SEPs, RAPs, and ESCP shall be completed. The reports and results of those activities shall reflect most up to date data and additional sections shall be prepared and the reports, documents shall be revisited, revised and updated to reflect the current baseline of the subproject sites as defined within this ToR. The ESIA Reports, ESMPs, RAPs, SEPs and ESCP shall reflect the final version of the detailed design.

Since the existing reports were prepared and disclosed in May 2020, the Consultant shall review both the national and international legislation, as well as the up-to-date administrative government structure and stakeholder map and update the institutional and legal framework sections and project SEPs, if required. SEPs will be updated to include all consultations to be conducted by the consultant (e.g. initial consultations, focus group discussions, and disclosure phase consultations). Aligned with the final detailed design, the Consultant shall revise the Project description and alternative analysis sections.

The Consultant shall collaborate with the Consultant of the assignments “Consulting Services for Engineering Design Review, Preparation of Bidding Documents for Civil Works, and Construction Supervision of Last-Mile Rail and Road Infrastructure Connectivity to/from Filyos Port and Filyos Industrial Zone” and “Consulting Services for Engineering Design Review, Preparation of Bidding Documents for Civil Works, and Construction Supervision of Last-Mile Rail Connectivity Infrastructure in Turkey’s Çukurova Region and Iskenderun Bay” by providing/receiving information for completion of the E&S studies as per the revised designs, and for revising the designs as per the outcome of E&S studies. The Consultant shall attend all bilateral meetings and studies for revising the designs when needed.

* 1. TASK-1: Biodiversity Site Surveys, Data Collection, Seed Collection, Translocation

The ESIA study area, which consists of 500m corridor extending on each side of the proposed route in Filyos and Cukurova was considered as the Biodiversity Study Area. Ten (10) sampling stations were used for the detailed flora and fauna sampling surveys. Limitations and uncertainties remain as specified in the ESIA Reports for the biodiversity studies, such as the detailed species identification, which did not allow for studying seasonal restrictions whereas habitat suitability has been studied for both sites Filyos and Cukurova within the project area.

Referring to the habitat loss/fragmentation impact in Çukurova ESIA; impact significance is ***major*** specifically on the sternbergia pulchella population before the mitigation measures are implemented, whereas the residual impact significance after the proposed mitigation measures is ***unknown***. Sterbergia pulchella population on the Project route consists of 100 individuals, which corresponds to about 20% of its known population in Turkey. Further evaluation and monitoring is required for this specie, offset strategies might be required to be developed.

As explained above, the Consultant shall review the existing literature and also the existing field studies on flora and fauna of the project area, critical habitat assessments, data constraints, biodiversity management plan and conduct the seasonal surveys to gather the missing data. The final outputs under this task shall be prepared in parallel with the draft final design.

Specifically, the first task will be based on the recommendations of Filyos and Çukurova ESIAs and ESMPs and should be conducted under the main tasks as given below;

1. Review the existing reference documents, specified in section 1 above, and prepare a schedule for the timely completion of the tasks, considering any seasonal shifts such as the April to June season referred in the ESIA Reports, and any other seasonal shifts as might become appropriate;

Report any gaps in data collection and methodology with respect to Environmental and Social Framework of the World Bank, Filyos and Cukurova ESIA Reports and national legislation, i.e. detailed species identification,

Propose methods to address the identified gaps and implement those methods during site surveys.

Complete the specified biodiversity data collection and additional seasonal site surveys in compliance with Table 1 and Table 2 to:

Conduct pending biodiversity site assessments of the subprojects Filyos and Çukurova, as proposed by the ESIA reports and ESMPs, to the extent that additional data allow to reflect the current status of biodiversity and fill in information gaps. Where there is still data gaps and limitations, those should be specified under the site survey reports with clear justifications and further recommendations.

Propose mitigation measures to be incorporated into the detailed design and construction,

Implement seed collection and translocation requirements, where necessary under the guidance of relevant subject matter expert,

Collect seeds of high conservation value species that would be impacted by project activities based on available information and expert judgement. Ensure the preservation of collected seeds in the gene bank by preparing a protocol with the gene bank,

If translocation is proposed as a mitigation, ensure the registry of the exact coordinates of the translocation so that further monitoring can be conducted. Insert proper signs and fencing,

1. Ensure proper stakeholder engagement/stakeholder consultations in compliance with ESS6, considering the local, national and World Bank requirements implemented under Covid-19,
2. Incorporate each specific data obtained under the survey forms and reports.

Table 1. Sub-tasks of Task 1 in Çukurova Sub-project

|  |  |  |  |
| --- | --- | --- | --- |
| **Biodiversity - CUKUROVA** | | **Season** | **Deliverable** |
| **Impact** | **Tasks to be conducted** |
| Habitat loss / fragmentation | Pre-construction surveys will be conducted on both sides of the route prior to finalization of the detailed design in an appropriate season, from April through June, to gather additional information on species (especially on those that are of high conservation concern) and habitat composition of the Biodiversity Study Area. | from April to June | 1st site survey reports |
| *Sterbergia pulchella* population on the Project route consists of 100 individuals, which corresponds to about 20% of its known population in Turkey. Its presence at different locations will be researched during pre-construction surveys to be conducted prior to the finalization of the detailed design. Seeds of the identified individuals will be collected and the species’ cluster will be translocated under the supervision of field experts so that the population can be rescued. | from April to June | 1st site survey reports |
| The known location of the Alopecurus adanensis will be confirmed through pre-construction surveys prior to the finalization of the detailed design. If populations are identified in different areas, necessary measures will be implemented within the scope of the Biodiversity Management Plan. Potential indirect impacts on the known population will be avoided. Seeds of the species will be collected and preserved at the gene bank to ensure conservation of its populations. If appropriate, these seeds can be propagated at later stages of the project. Expert judgement suggests that propagation efforts would yield successful outcomes. | from April to June | 1st site survey reports |
| Nesting areas for all fauna species will be identified through pre-construction surveys, and experts will be consulted if nests are to be displaced. | from May to September | 2nd site survey report |
| Surveys targeting bird species will be conducted prior to the finalization of the detailed design during migration and breeding seasons to provide further information on habitat use, breeding status and flight routes of target species. | from April to June | 1st site survey reports |

**Table 2.** Sub-tasks of Task 1 in Filyos sub-project

|  |  |  |  |
| --- | --- | --- | --- |
| **Biodiversity - FİLYOS** | | **Season[[2]](#footnote-3)** | **Deliverable** |
| **Impact** | **Tasks to be conducted** |
| Habitat loss / fragmentation | Pre-construction surveys will be conducted on both sides of the route prior to finalization of the detailed design in an appropriate season, from April through June, to gather additional information on species (especially on those that are of high conservation concern) and habitat composition of the Biodiversity Study Area. | April to June | 1st site survey reports |
| Nesting areas for fauna species will be identified through pre-construction surveys, and experts will be consulted if nests are to be displaced. | from May to September | 2nd site survey report |
| Surveys targeting bird species will be conducted during migration and breeding seasons to provide further information on habitat use, breeding status and flight routes of target species prior to the finalization of the detailed design. | from April to June | 1st site survey reports |
| For Lutra lutra, presence of its population will be confirmed and habitat preferences will also be identified prior to the finalization of the detailed design. | May to September | 2nd site survey report |

1. Prepare and submit the site survey reports. It should be considered that these site survey reports will be used for further biodiversity assessments such as updating critical habitat assessment, impact assessment and revision of ESIA, ESMP and BMP, which is also under the scope of this service. In addition, it is required that the data collected and the submitted site survey reports should reflect all the required biodiversity specific information to ensure the further biodiversity assessments to be completed.

Once the Consultant completes the biodiversity additional data collection and site surveys, the BMP will also be revised by the Consultant. In parallel and in close collaboration with DGII PIU Environmental specialist, the Consultant shall review the draft final detailed design and identify if there is further requirement of site studies, surveys, habitat assessments such as if the route is changed and the proposed route is out of the pre-determined biodiversity area of influence of 500 m. corridor on each side of the route. Furthermore, an Invasive Alien Species (IAS) Management Procedure shall be developed by the Consultant as a guidance for the Contractor to define measures to be taken in case of an accidental introduction and spread:

* + Undertake an IAS survey prior to the commencement of site works of the Contractor.

Deliverables of Task 1 shall be daily reports, site survey reports, Invasive Alien Species Management Procedure.

* 1. TASK-2: Review, revise and update the ESIA package of Filyos and Çukurova Projects

Previous baseline studies conducted for Filyos and Çukurova Projects in 2020 with respect to air, noise, water and soil sampling and studies are presented in the below Table 3. The Consultant shall review the full ESIA package of Filyos and Çukurova sub-projects and collect the required samples, conduct analysis and modelling studies, which is required to ensure the revision and update of the ESIA package in compliance with WBG ESF and ESSs. The Consultant shall use the defined Project Standards in the existing ESIA reports to evaluate and compare the results of baseline data gathered, such as WBG EHS Guidelines, Turkish Regulations, etc.

As per the results obtained under this Task 2, the Consultant shall review and update the ESMPs to revise the 3rd party E&S monitoring requirements and prepare the new monitoring protocol, which will be valid throughout construction.

Throughout the ESIA package preparation, the Consultant shall carry out the consultations with the permitting authorities to receive the required opinion/approval together with DGII PIU E&S Specialists. The Consultant shall provide the full assistance during the permitting processes of the Burnaz Spring Groundwater Protection Area and the cultural heritage sites in the sub-projects as stated in the Section 2. Objective of this ToR.

Table 3. Baseline studies of Filyos, Çukurova sub-projects carried out in January-February 2020

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Air Quality** | | | | |
| Parameters | **# of sampling locations** | **# of analysis carried out in the feasibility phase** | **# of sampling locations** | **# of analysis carried out in the feasibility phase** |
| **Çukurova** | | **Filyos** | |
| PM10 | 5 | 5 | 5 | 5 |
| Dust deposition | 5 | 5 | 5 | 5 |
| PM2.5 | 5 | 5 | 5 | 5 |
| Passive-SO2 | 16 |  | 12 | - |
| Passive-NOx | 16 |  | 12 | - |
| **Noise** | | | | |
|  | **Çukurova** | | **Filyos** | |
| Measurements and assessment | 1 | 1 | 1 | 1 |
| Noise Measurements (Day, night etc.) | 5 | 5 | 5 | 5 |
|  |  |  |  |  |
| **Water** | | | | |
|  | **Çukurova** | | **Filyos** | |
| Water | 6 | 5 | 4 | 3 |
|  |  |  |  |  |
| **Soil** | | | | |
|  | **Çukurova** | | **Filyos** | |
| Soil | 5 | 5 | 2 | 2 |
|  |  |  |  |  |

* + 1. Air Quality Impact Assessment

The Consultant shall review the baseline data in alignment with draft final detailed design. The existing baseline studies are presented in Table 3 above. In case there is a change in the area of influence, the Consultant shall evaluate these changes to understand whether the existing baseline data is enough or there is a need of conducting any additional analysis within the scope of this ToR. This requirement shall be justified and the approval of DGII PIU E&S team shall be received. Once all the parties decide to conduct the analysis, the air quality modelling shall be revisited and revised. The impact assessment sections shall be upgraded in parallel with these data and model outputs. Cumulative impact assessment shall also consider any modifications considered within the air quality section. Air quality impact assessment will be conducted by the help of an internationally accepted regulatory steady state air quality dispersion model.

* + 1. Cultural Heritage Management

The Consultant shall refer to the existing ESIAs and conduct additional field visits, working in parallel with the detailed design consultants, to evaluate and assess any impacts to cultural heritage within the project area, that might be associated with detailed design, and determine all permitting requirements to be met with regard to the cultural heritage assets in the project area. The Consultant shall revise the model and update ESIAs’ Cultural Heritage sections, Cultural Heritage Management Plan and Chance Find procedure, where necessary. Through this study, the Consultant shall work in close coordination with DGII PIU, specifically with its Supervision and E&S Teams.

* + 1. Water Quality Impact Assessment

The existing baseline studies are presented in Table 3 above. Water Quality Impact Assessment section including the analysis results, shall be reviewed by the Consultant, updated by taking the required samples to present the existing status of the site . The Consultant shall evaluate the compliance with all applicable water supply withdrawal, wastewater discharge, ambient receiving water quality criteria and groundwater quality regulations.

* + 1. Noise Impact Assessment

The existing baseline studies are presented in Table 3 above. The project must demonstrate that noise limits will not be exceeded at the nearest sensitive receptors. Therefore, the Consultant shall focus on the draft final design and re-evaluate whether the existing noise modelling results and data are sufficient. If data gaps arise, additional noise measurements will be conducted, and the model will be updated. The results will guide the Contractor for identifying if there is a need of installing noise barriers. This should cover the requirement of "Updating the Filyos and Cukurova ESIAs to incorporate the post mitigation operational phase noise modeling after design of the mitigation measures (barns, noise barriers)" as committed within the Environmental and Social Commitment Register.

* + 1. Solid and Hazardous Waste Impact Assessment

Consultant will review and evaluate the applicable regulations related to solid wastes, dangerous wastes and harmful substances as well as the baseline data of the Project areas. Consultant shall go through the mitigations defined in the existing ESIAs and revise if required, considering the draft final design.

* + 1. Socio-Economic Impact Assessment and Resettlement Action Plan

Currently, DGII has the ESIA package in place, but the raw data is not available. During the preparation of the final design and referring to the draft final design as well as the existing ESIA reports and the RAPs, the Consultant will re-evaluate the impacts of the projects on the local socio-economic and demographic structure, such as population, individual and community resources and facilities. Thereby, the social baseline data/information provided in the existing ESIAs/RAPs will be updated to ensure that the ESIA package should present the most recent data and ensure that revisions made in the report are in line with the changes in the project design. Similarly, potential impacts of the project on local employment, land use, agricultural activities and livelihood shall be re-assessed and updated. The Consultant will also assess the potential impacts/risks and the proposed mitigation measures provided in the existing ESIA package of the Projects on sensitive receptors such as industrial and residential areas, hospitals, schools, etc. Existing baseline data, field survey studies (air, water, soil, noise, ecological, socio-economic and resettlement surveys and data etc.) will be reviewed based on the draft final design and will be evaluated to identify the scope of the additional questionnaires, surveys and consultations to be carried out. In line with the gaps and needs identified, the Consultant will organize and carryout the field work to collect the required data. It will be ensured that the full census of affected persons and inventory of assets are complete and represent the current situation in the project site. ESIA Reports, SEPs and RAPs will be revised in compliance with WB ESF and its ESSs. Referring to the Section 3.3 of the RAPs, the Consultant shall evaluate and reflect how the gaps in between national legislation and international standards are covered. Although the area of influence is specified as 500m., the study area can be revised, enlarged where required.

As per the existing RAPs, inventory studies were conducted in 2020. This might cause a discrepancy between the current nature of the Project areas and the status previously identified in the existing ESIA package (i.e., additional investments around the project area and/or there might be changes in the land use, landownership and formal and informal user status, categories of entitled people, etc.). Therefore, the Consultant shall conduct a detailed full asset inventory, identify its owner/user status and prepare detailed asset valuation aligned with national legislation, WB ESS 5 and as per compensation, eligibility and entitlements categories in the Project RAPs. The Consultant shall work in collaboration with a survey engineer and an inventory analyst or a group of inventory analysis experts/consultancy firm to ensure the final RAPs include the required updated inventory and valuation data for the implementation of the RAP in compliance with WB ESF and ESS5 and in coordination with DGII PIU. While carrying out this task, field coordination and initial consultation with official institutions like municipalities, sub-governors, muhtars and NGOs etc. shall be ensured. The Consultant shall aim to achieve full census goal while conducting questionnaires with Project Affected People (PAP) and complete census of all land & assets in the Project impact area according to the final design. The revised and the final version of the RAPs shall cover a section explaining the livelihood restoration activities to be held in the specified region including a detailed breakdown of activities and associated budgets.

* + 1. Analysis, surveys or modelling studies

The studies listed below in Table 4 and any additional tests, analysis, surveys or modelling studies that is considered necessary by the Consultant shall be conducted by the Consultant within the scope of Task 2.

Table 4. List of Analysis/Sampling/Modelling requirements to be considered

|  |
| --- |
|  |
| **Name of the analysis/measurement/modelling** | |
| Measurement of Particulate matter (PM2.5, PM10) | |
| Dust Deposition | |
| Passive Sampling +Analysis (NOX,SO2, VOC) | |
| Measurement, Determination and Assessment of Environmental Noise&Vibration (48 hrs Leq and Lmin, Lmax and L90 values) | |
| Soil Analysis (TPH, BTEX, VOCs) | |
| Surface Water analysis (As per Annex-5 Table 2 of the regulation) | |
| Air quality modelling | |
| Noise modelling | |
| Other (Any additional analysis to be considered shall be specified) | |

The Consultant shall prioritize its efforts to obtain any available data at the specific project site before proposing additional tests, analysis, surveys or modelling studies referring to the other government projects that is ongoing at Site, if deemed necessary with the support of DGII to obtain those documents.

The estimated costs of the mitigation measures given in the ESMPs should be revisited and revised, if needed.

Within the scope of this Task 2, whole ESIA and RAP package baseline data etc. shall be submitted by the Consultant, such as;

1. Full asset inventory data and analysis,
2. The valuation report to be prepared within the scope of this asset inventory. This valuation report includes data on shareholder and user status of assets, national acquisition costs and replacement costs and livelihood restoration costs for each assets and related PAPs,
3. Photos from fieldwork and consultations,
4. Implemented survey questionnaires and their database/raw data (i.e. SPSS or etc. data),
5. Reports of focus group meetings carried out with community members, women and vulnerable groups etc.,
6. Attendance list and consultation forms, feedbacks, questions, requests, complaints etc. gathered from stakeholders throughout fieldwork activities,
7. Field forms and notes for each aspect of the ESIA and RAPs, and
8. Photos from site drive through and fieldwork activities for each aspect of the ESIA and RAPs both for Filyos and Çukurova Projects.

The final product of this task will be the updated ESIA package including the below listed materials;

* ESIA Reports of the sub-projects including the ESMPs,
* RAPs of the sub-projects,
* SEPs of the sub-projects,
* Non-technical summaries (NTSs),
* Guide to Land Acquisition (GLACs),
* Frequently Asked Questions (FAQs),
* Project Leaflets to be used during the physical disclosure of the ESIA package,
* Project Posters to be used during physical disclosure of the ESIA package,
* Disclosure video presentations[[3]](#footnote-4),
* Covid-19 Precautions Instruction Brochures for the PAPs.
  1. Task 3. ESHS Trainings planned for the capacity improvement of the DGII PIU

Three types of trainings are planned in the Annual Plan of RLIP. Considering the World Bank ESF and the ESSs, as well as the existing ESIA package of the sub-projects, the high-risk areas of the sub-projects that might create concerns during the construction of the sub-projects were identified. Based on this process, trainings required are proposed as follows and the Consultant shall give the trainings to the DGII PIU members to enhance the knowledge of the team with respect to these high-risk areas of the sub-projects. The trainings will take place online, except the on-site sessions of the road safety trainings. The trainings will be planned as 1 full day or 2 days half day. The commencement date will be within 30 days after contract signature. The number of people to be trained is around 30 people. The Consultant is responsible to ensure the qualified trainers are providing the trainings as defined in the Consultant Inputs section such as, for the first training, archaeologist and biologist/biodiversity specialist shall give the trainings together with the Project Manager/ESIA Expert of the Consultant and for the other trainings in-house OHS specialist can be used if the specialist has the experience, qualifications and certificates and competent enough to give these trainings.

1. Biodiversity and Cultural Heritage Aspects of Linear Projects: The Consultant shall define and explain the environmental risk reduction measures in linear transport infrastructure projects focusing on biodiversity and cultural heritage. The content of the training can be listed as below and can be further developed, if deemed necessary.

* Environmental risk assessment methods
* Risk assessment in linear infrastructure projects
* Assessment of impacts on biodiversity and cultural heritage in linear infrastructure projects and mitigation measures
* Environmental impacts of the project during construction and operation and mitigation measures
* National and international legislation and best practices
* Case studies of linear infrastructure projects on biodiversity and cultural heritage

1. Road Safety and Traffic Safety: The Consultant shall give a training with the content as listed below;

* Defensive driving theoretical and on-site training
* Training on management of driving fatigue process
* Night driving training

1. Accident Investigation and Root Cause Analysis Training: The Consultant shall give a training with the content as listed below;

* Accident Investigation Techniques
* Accident investigation with root cause analysis
* Case studies
  + Carry out a sample accident investigation and reporting using the root cause analysis method
  + Organizational structure of the analysis to have better results

1. Consultant Inputs

The successful fulfillment of the scope of services requires professional qualification in the field of Environmental and Social Impact Assessment Consultancy, especially for the linear projects such as pipelines, railways, highways.

It is anticipated that key professional staff of the Consultant’s team may include a combination of international and national professionals. This **core team** shall be supported by other professionals (such as interviewer, accountant, documentation expert, translators, and any other engineers in relevant fields as required). The Consultant shall assemble a team capable of and experienced to prepare ESIA Reports, RAPs, SEPs, ESMPs. The team shall have **at least** the following key experts (or equivalent combination of expertise):

* Project Manager (Senior Environmental Engineer/ESIA Expert)
* Junior Environmental Engineer
* Hydrobiologist
* Biologist (Botanist-Terrestrial Flora & Vegetation Expert)
* Biologist (Mammal Expert)
* Biologist (Enthomologist)
* Biologist (Herpethologist)
* Biologist (Ornitologist)
* Senior Geological Engineer
* Noise expert
* GIS Expert
* Soil Expert
* Archaeologist
* Social Specialist
* RAP Expert
* Statistician/Analyst
* Survey Engineer
* RAP Valuation Expert
* Occupational Health and Safety Specialist
* Trainer/ Senior Occupational Health and Safety Specialist
* Trainer/ Road Safety Specialist

The Consultant shall deliver curriculum vitae (CV) of key experts, of which will be approved by DGII PIU.

The qualifications and experience of the project personnel of the Consultant must satisfy at least the below given qualifications and experience:

Project Manager (Senior Environmental Engineer/ESIA Expert); with a bachelor’s degree or master’s degree in environmental engineering or science subject. At least 15 years of experience in ESIA preparation with full experience on the international standards of International Finance Institutions/Export Credit Agencies (IFIs/ECAs) such as Equator Principles, IFC Guidelines and Performance Standards, World Bank ESF&ESSs, EBRD Performance Requirements (PRs). 10 years’ Environmental impact assessment management experience in linear projects is a must.

Junior Environmental Engineer; with a bachelor’s degree or master’s degree in environmental engineering or science subject. At least 5 years of experience in ESIA preparation, including baseline analysis studies. At least two (2) assignments completed that included similar tasks in the linear projects with full experience on the international standards of IFIs/ECAs such as Equator Principles, IFC Guidelines and Performance Standards, World Bank ESF&ESSs, EBRD PRs.

Hydrobiologist; with a bachelor’s degree in biology, higher degrees such as master’s, PhD or above. At least 15 years of experience in preparing baseline analysis reports and ESIA critical habitat assessment, biodiversity management plans with full experience on the international standards of IFIs/ECAs such as Equator Principles, IFC Guidelines and Performance Standards, World Bank ESF&ESSs, EBRD PRs.

Biologist (Botanist-Terrestrial Flora & Vegetation Expert); with a bachelor’s degree in biology, higher degrees such as master’s, PhD or above. At least 15 years of experience in preparing baseline analysis reports and ESIA, critical habitat assessment, biodiversity management plans with full experience on the international standards of IFIs/ECAs such as Equator Principles, IFC Guidelines and Performance Standards, World Bank ESF&ESSs, EBRD PRs.

Biologist (Mammal Expert); with a bachelor’s degree in biology, higher degrees such as master’s, PhD or above. At least 15 years of experience in preparing baseline analysis reports and ESIA, critical habitat assessment, biodiversity management plans with full experience on the international standards of IFIs/ECAs such as Equator Principles, IFC Guidelines and Performance Standards, World Bank ESF&ESSs, EBRD PRs.

Biologist (Enthomologist); with a bachelor’s degree in biology, higher degrees such as master’s, PhD or above. At least 15 years of experience in preparing baseline analysis reports and ESIA, critical habitat assessment, biodiversity management plans with full experience on the international standards of IFIs/ECAs such as Equator Principles, IFC Guidelines and Performance Standards, World Bank ESF&ESSs, EBRD PRs.

Biologist (Herpethologist); with a bachelor’s degree in biology, higher degrees such as master’s, PhD or above. At least 15 years of experience in preparing baseline analysis reports and ESIA, critical habitat assessment, biodiversity management plans with full experience on the international standards of IFIs/ECAs such as Equator Principles, IFC Guidelines and Performance Standards, World Bank ESF&ESSs, EBRD PRs.

Biologist (Ornitologist); with a bachelor’s degree in biology, higher degrees such as master’s, PhD or above. At least 15 years of experience in preparing baseline analysis reports and ESIA, critical habitat assessment, biodiversity management plans with full experience on the international standards of IFIs/ECAs such as Equator Principles, IFC Guidelines and Performance Standards, World Bank ESF&ESSs, EBRD PRs.

Senior Geological Engineer; with a bachelor’s degree or master’s degree in a geological engineering or science subject. At least 15 years of experience in ESIA preparation with full experience on the international standards of IFIs/ECAs such as Equator Principles, IFC Guidelines and Performance Standards, World Bank ESF&ESSs, EBRD PRs. 10 years’ Environmental impact assessment management experience in linear projects is a must.

Noise Expert; with a bachelor’s degree or master’s degree in mechanical engineering or other relevant engineering background and with specific expertise on noise, especially having competency and experience in noise modelling in environmental impact assessments. At least 10 years of experience in ESIA preparation with full experience on the international standards of IFIs/ECAs such as Equator Principles, IFC Guidelines and Performance Standards, World Bank ESF&ESSs, EBRD PRs.

GIS Expert; with a bachelor’s degree or master’s degree in a geological, environmental engineering, geodesy engineer or any other relevant subject. At least 15 years of experience in ESIA preparation with full experience on the international standards of IFIs/ECAs such as Equator Principles, IFC Guidelines and Performance Standards, World Bank ESF&ESSs, EBRD PRs. 10 years’ Environmental impact assessment management experience in linear projects is a must.

Soil Expert; with a bachelor’s degree or master’s degree in a geological, environmental engineering, agricultural engineer, civil engineer, mining engineer or any other relevant subject. At least 15 years of experience in ESIA preparation with full experience on the international standards of IFIs/ECAs such as Equator Principles, IFC Guidelines and Performance Standards, World Bank ESF&ESSs, EBRD PRs. 10 years’ Environmental impact assessment management experience in linear projects is a must.

Archaeologist; with a bachelor’s degree in archeology or related field is required, with a minimum of 15 years general professional experience and at least 10 years of experience in preparing baseline analysis reports and ESIA with full experience on the international standards of IFIs/ECAs such as Equator Principles, IFC Guidelines and Performance Standards, World Bank ESF&ESSs, EBRD PRs.

Social Specialist; with a bachelor’s degree or master’s degree in social science subject. At least 10 years in the fields of social impact and risk assessment, stakeholder consultation, organizing and conducting social surveys and reporting, preparing resettlement action plans, livelihood restoration plans and stakeholder engagement plans. At least two (2) assignments completed that included similar tasks in the related fields with full experience on the international standards of IFIs/ECAs such as Equator Principles, IFC Guidelines and Performance Standards, World Bank ESF&ESSs, EBRD PRs.

RAP Expert; with a bachelor’s degree or Master’s degree in the social science, e.g. sociology, anthropology, human geography, development economics, or related fields. 10 years’ experience in preparation and implementation of resettlement plans, development of livelihood restoration plans and measures. Experience in preparation and implementation of land acquisition, and knowledge of national legislation and IFIs’ standards. Planning, implementing and interpreting social surveys. Fundamental knowledge of construction projects and their social and environmental impacts and risks. Understanding of environmental and social safeguard of IFIs.

Statistician/Analyst; with a bachelor’s degree or master’s degree in statistics, mathematics, or similar. 5+ years' experience as a statistical analyst. In-depth knowledge of statistical data modeling software. Ability to spot data trends. Knowledge of data mining and scrubbing. Experience with data visualization tools. Excellent report writing skills.

Survey Engineer; with a bachelor’s degree in geomatic, topographical engineering, quantity surveying, civil engineering, or a related field with a focus on infrastructure. 5+ years’ experience in the infrastructure sector, covering design, supervision, project planning, implementation, settlement of contractual. Prior experience on railway infrastructure projects or programs.

RAP Valuation Expert; with a bachelor’s degree or master’s degree in law, agriculture engineering, civil engineering, surveying engineering or relevant department. 10 years’ experience in the infrastructure sector, and national requirement and IFIs standards. Valuation of all assets in the project impact area, based on national legislation, WB ESSs and breakdowns in Project's RAP.

Occupational Health and Safety Specialist (OHS); with a bachelor’s degree or master’s degree in engineering or relevant department. The OHS Specialist is expected to have at least 10 years of general experience, in health and safety issues of E&S Consultancy business and experienced in the infrastructure projects, of which have to comply with national requirements, IFIs’ standards, WBG ESF, ESSs and EHS guidelines. Knowledge of international best OHS practices and standards will be preferable. National certificate on Safety or NEBOSH certificate is a must.

Trainer: Senior Occupational Health and Safety Specialist (OHS); with a bachelor’s degree or master’s degree in engineering or relevant department. The OHS Specialist is expected to have at least 15 years of general experience, in health and safety issues of E&S Consultancy business and experienced in the infrastructure projects, of which have to comply with national requirements, IFIs’ standards, WBG ESF, ESSs and EHS guidelines. Knowledge of international best OHS practices will be preferable. National certificate on Safety or NEBOSH certificate is a must. “Train the trainer” certificate is required. This Specialist shall be capable of giving training on accident investigation, root cause analysis and shall demonstrate the proof of his/her competence on the required training under Task 3.

Trainer: Road Safety Specialist; with a bachelor’s degree or master’s degree in engineering or relevant department. The Road Safety Specialist is expected to have at least 15 years of general experience, in health and safety issues of E&S Consultancy business and experienced in the infrastructure projects, of which have to comply with national requirements, IFIs’ standards, WBG ESF, ESSs and EHS guidelines. Knowledge of international best OHS practices will be preferable. “Train the trainer” or “Road Safety Trainer” certificate is required. This Specialist shall be capable of giving training on road safety and shall demonstrate the proof of his/her competence on the required training under Task 3.

1. Duration of the Assignment

The Consultant is expected to be mobilized as of end of March 2022 for a period of approximately 8 months in a way to cover missing seasonal requirements for biodiversity studies defined in the ESIAs, ESMPs and BMPs, which is mainly April to June and May to September and to consider the draft final detailed design while conducting the requirements given within the scope of this ToR, therefore to revise, update, disclose the ESIA package.

1. Reporting and Deliverables

The Consultant will be expected to produce the following deliverables as hard and soft copy formats in English, including the GIS spatial data, drawings, analysis, modelling results, surveys, questionnaires, raw data such as forms etc., whereas only the full ESIA package will be submitted both in English and Turkish.

All deliverables will be subject to comments and feedback by the PIU, DGII and the World Bank, as required.

All data obtained during the execution of the study, from surveys to final report, shall be reported to the PIU in appropriate electronic formats proposed by the Consultant and agreed by the PIU, including partially or wholly detailed description/instructions of any survey methodologies.

The Consultant shall include in their reports detailed annexes explaining all assumptions and showing all calculations. Electronic copies of spreadsheets showing all calculations and raw data inputs should also be submitted.

**Inception Report.** The Consultant will prepare an inception report to demonstrate how the tasks will be managed throughout this Consultancy Services, including the overall planning and schedule of the tasks foreseen, formats of the site surveys and formats of method statements etc. Inception report shall be submitted to the review and approval of DGII within 15 days from the commencement.

**Method statement.** The Consultant will prepare a ***method statement*** that defines each task to be completed and their potential risks/impacts and relevant mitigation measures to be taken and shall submit this ***method statement*** to the approval of DGII 15 days before each site visit. The ***Method Statement*** should also include specific mitigation measures for Covid-19.

Overall **Schedule.** The Consultant should prepare and submit an overall schedule for the tasks to the DGII’s review and approval within 15 days from the commencement.

**Daily Reports.** The Consultant shall prepare ***daily reports*** (including daily site survey forms in compliance with WB ESF and ESSs) during the site visits as per the approved schedule and submit these reports to the DGII-PIU on a daily basis. The ***daily reports*** shall include detailed ***site survey forms*** in compliance with WB ESF and ESSs. The ***site survey forms*** should define the name of the surveyor, date and coordinates of the site surveyed, as well as other technical details, which might be required for further critical habitat assessment and to identify biodiversity offsetting requirements. In addition, for the further social studies. The ***daily reports*** will be subject to review and approval of the DGII.

**Site Survey Reports.** The Consultant shall prepare ***site survey reports*** as the final deliverable of Task 1, which will present a baseline for the further revision of biodiversity management plant and fill the data gaps for the critical habitat assessment. The Consultant shall submit these reports to the review and approval of the DGII-PIU. There will be two main site survey reports reflecting the seasonal site visits of April to June and May to September, carried out as per the tasks in the Table Annex. The 1st report should be submitted at the end of June, 2022 and the 2nd report should be submitted at the end of September, 2022.

**Monthly Reports.** The Consultant shall prepare ***monthly reports*** to present the monthly progress achieved (activities carried out, achievements, risks and concerns, schedule update-if required) for each of the tasks of this ToR. The ***monthly reports*** will be subject to review of the DGII-PIU.

**Draft ESIA Reports, ESMPs, RAPs, SEPs, Non-technical summaries, Guide to Land Acquisition (GLACs), Frequently Asked Questions (FAQs), Project Leaflets, Posters, Disclosure video presentation[[4]](#footnote-5), Covid-19 Precautions Instruction Brochures for the PAPs.**

The ***draft version*** of these reports/documents shall be prepared in alignment with the final detailed design andshall be submitted to the review and approval of DGII PIUE&S Specialists. In line with the comments received, the Consultant shall prepare the ***draft final versions as listed in the following item.***

1. Within the scope of this deliverable, whole ESIA and RAP package baseline data etc. shall be submitted by the Consultant, such as,
2. Full asset inventory data and analysis,
3. The valuation report to be prepared within the scope of this asset inventory. This valuation report includes data on shareholder and user status of assets, national acquisition costs and replacement costs and livelihood restoration costs for each assets and related PAPs,
4. Photos from fieldwork and consultations,
5. Implemented survey questionnaires and their database/raw data (i.e. SPSS or etc. data),
6. Reports of focus group meetings with community members, women and vulnerable groups etc.,
7. Attendance list and consultation forms, feedbacks, questions, requests, complaints etc. gathered from stakeholders throughout fieldwork activities,
8. Field forms and notes for each aspect of the ESIA and RAPs, and
9. Photos from site drive through and fieldwork activities for each aspect of the ESIA and RAPs both for Filyos and Çukurova Projects.

In addition, the Consultant shall submit the full ESIA package consisting of the below listed materials as of beginning of August 2022 for the review and approval of DGII PIU E&S team:

* ESIA Reports of the sub-projects,
* RAPs of the sub-projects,
* SEPs of the sub-projects,
* Non-technical summaries (NTSs),
* Guide to Land Acquisition (GLACs),
* Frequently Asked Questions (FAQs),
* Project Leaflets to be used during the physical disclosure of the ESIA package,
* Project Posters to be used during physical disclosure of the ESIA package,
* Disclosure video presentations4,
* Covid-19 Precautions Instruction Brochures for the PAPs.

**Draft Final Versions of the above Deliverables.** This is the approved version of the reports that will be disclosed on the DGII website and to the stakeholders as of end of September 2022. This version is also open to revision, if there are any comments received during disclosure.

**Final version of the deliverables listed above;** Consultant shall submit the final version to DGII so that this report will be disclosed again on the DGII website as the final version as of end of October 2022.

1. Copyright and Use of Documents and Publications

Copyright of all site survey forms, reports shall vest in DGII. The Consultant shall indemnify DGII against any claims associated with any action, claim, suit or demand arising out of or in respect of any breach of any intellectual property rights relating to the provision of the consulting services. The Consultant may with the prior consent of DGII publish, either alone or in conjunction with others, articles, photographs and other illustrations relating to the project.

1. Professional Standard of Care

In performing the services, the Consultant shall exercise the degree of skill, care, and diligence normally exercised by members of the Consultant’s profession performing services of a similar nature, in accordance with the ethics of the Consultant’s profession.

1. https://aygm.uab.gov.tr/dunya-bankasi-turkiye-de-demiryolu-lojistigini-gelistirme-projesi [↑](#footnote-ref-2)
2. Seasonal survey windows will be subject to expert opinions and site survey days shall be arranged in compliance with their opinion such that if sufficient data is gathered in the early months of the given intervals herein, the Consultant should arrange the overall completion to fit the schedule of this ToR. [↑](#footnote-ref-3)
3. ## “**Projelere Ait Tanıtım Videosu”**

   https://aygm.uab.gov.tr/dunya-bankasi-turkiye-de-demiryolu-lojistigini-gelistirme-projesi [↑](#footnote-ref-4)
4. ## “**Projelere Ait Tanıtım Videosu”**

   https://aygm.uab.gov.tr/dunya-bankasi-turkiye-de-demiryolu-lojistigini-gelistirme-projesi [↑](#footnote-ref-5)