

REQUEST FOR EXPRESSIONS OF INTEREST

(CONSULTING SERVICES – QCBS)

TÜRKİYE

EU Instrument for Pre-Accession (IPA) Energy Sector Program Phase IV Project

Grant No.:

Assignment Title: Consulting Services for Met Ocean and Wind Measurement Studies for Offshore Wind Site Investigation in Türkiye

Reference No: CS01A

The Ministry of Energy and Natural Resources (MENR) has received a grant from the European Union toward the cost of the EU Instrument for Pre-Accession (IPA) Energy Sector Program Phase IV Project, and intends to apply part of the proceeds for Consulting Services.

The Consulting Services (“the Services”) include the conduction of meteorological and oceanographic analysis and measurements at specific offshore sites to be selected by MENR.

The studies include:

1. analysis, measurement and survey activities informed through the application of meteorological and oceanographic measurement systems,
2. acquirement of high-quality and reliable meteorological and oceanographic data,
3. preparation of meteorological and oceanographic measurement system application and data analysis reports,
4. preparation of geological, geophysical and geotechnical seabed survey reports and assessment of all survey outputs, and other relevant activities. (Geological, geophysical and geotechnical measurements will be carried out under a separate contract while the data obtained from the relevant measurements will be assessed under this assignment.)

Additionally, the contract aims to prepare technical, legislative and economic analysis reports and to carry out capacity building activities. The studies include:

1. oceanographic report including wave model analysis,
2. wind resource assessment,
3. recommendations on offshore wind turbine location/size/type and type of foundations according to wind resource assessment and sea-bed survey studies,
4. economic and financial pre-feasibility report (bankability assessment, risk allocation, cash flow/investment return/LCOE/CAPEX/OPEX calculations, ports availability and supply chain issues) and recommendations on financial mechanisms to ensure private sector participation,
5. high-level grid connectivity assessment,
6. review of the relevant existing legislation to enable offshore wind development,
7. auction/tender/competition preliminary design and other relevant studies.

8. organization of on-the-job trainings for MENR staff for all analyses and desk studies to ensure transfer of knowhow along with development of site-specific in-house capacity for further revisions.

The detailed Terms of Reference for the assignment can be downloaded via following link:

<https://enerji.gov.tr/announcements-list>

The MENR now invites eligible consulting firms (“Consultants”) to indicate their interest in providing the Services. Interested Consultants should provide information demonstrating that they have the required qualifications and relevant experience to perform the Services. The shortlisting criteria are:

- The Consultants should be in the consulting business for not less than the last 5 years prior to deadline for submission of interests;
- The Consultants should have specific experience within the last 3 years prior to deadline for submission of interests in each of:
 - Experience in conducting meteorological and oceanographic measurements and assessment of the relevant data
 - Experience in preparing geological, geophysical and geotechnical seabed survey reports
 - Experience in marine biodiversity
 - Experience in development of offshore wind projects
 - Experience in preparing economic and financial pre-feasibility reports for offshore wind development at specific sites
 - Experience in grid connectivity assessment
 - Experience in reviewing existing legislation for offshore wind development and developing guidelines, templates for auction design
 - Experience in organizing trainings relating to offshore wind development
- The Consultants should demonstrate availability of and/or access to the key experts for the performance of the services described in the TOR (e.g., by providing a list of key experts they are working with)
- The Consultants should demonstrate sound administrative and financial capacity.

Key Experts will not be evaluated at the shortlisting stage.

The attention of interested Consultants is drawn to Section III, paragraphs, 3.14, 3.15, 3.16, and 3.17 of the World Bank’s “Procurement Regulations for IPF Borrowers” November 2020 (“Procurement Regulations”), setting forth the World Bank’s policy on conflict of interest.

<https://pubdocs.worldbank.org/en/178331533065871195/Procurement-Regulations.pdf>

Consultants may associate with other firms to enhance their qualifications, but should indicate clearly whether the association is in the form of a joint venture and/or a sub-consultancy. In the case of a joint venture, all the partners in the joint venture shall be jointly and severally liable for the entire contract, if selected. Interested consultants should clearly indicate the structure of their “association” and the duties of the partners and sub consultants in their application. Unclear expression of interests in terms of “in association with” and/or “in affiliation with” and etc. may not be considered for short listing.

A Consultant will be selected in accordance with the Quality and Cost Based Selection (QCBS) method set out in the Procurement Regulations.

Further information can be obtained at the address below during office hours from 10:00 a.m. to 4:00 p.m. Türkiye time.

Expressions of interest must be delivered in a written form to the address below in person, or by mail, or by e-mail until 3rd of July 2023 at 2:00 p.m. by local time.

Address:

Ministry of Energy and Natural Resources
General Directorate of Foreign Relations
Foreign Investment Coordination Department (Project Implementation Unit)
Attn: Engin Bostancı
Nasuh Akar M. Türkocağı C. no:2 A Blok Kat:4 no:60
Tel: +90 312 546 32 05
E-mail: dia2@enerji.gov.tr
Website: www.enerji.gov.tr

ANNEX

Türkiye: EU/IPA Energy Sector Technical Assistance Project

Terms of Reference

Consulting Services for Met Ocean and Wind Measurement Studies for Offshore Wind Site Investigation in Türkiye

1.INTRODUCTION

Türkiye's energy sector is in a transition to ensure self-reliance, robustness, diversification, supply security, competitiveness and low-carbon energy in compliance with its national circumstances. So far, the sector has been driven by two major characteristics: growing energy demand and import dependency, both of which are impacted by steady economic development with averagely 5% annual growth coupled with sectoral leaps in energy. To tackle these challenges, Türkiye has had its own circumstantial energy transition phases, first of which lasted a decade over the period of 2001-2016. During this first stage, Türkiye introduced radical reforms and restructuring in the energy sector including independent regulation of the sector by the Energy Market Regulatory Authority, enabling a level playing field for new market entrants, liberalization in power generation, distribution and trade as well as gas distribution and retail, and stepping up efforts to support the growth of renewable energy sources like solar and wind. Ensuring non-discriminatory access, energy markets mobilized sizeable private sector investments and involvement in energy activities. Since then, the installed capacity in energy generation, for instance, has almost tripled and the energy landscape in Türkiye's consumption and power generation patterns have altered.

Having reached a certain maturity threshold with the introduction of the Energy Exchange Istanbul (EPIAS) for electricity and natural gas transactions, Türkiye has stepped into the second phase of the energy transition which is mainly inspired by the National Energy and Mining Policy Strategy announced in 2017. This new stage emphasizes the three main pillars of the Strategy, which are (i) reinforcement of security of supply, (ii) localization through renewable and domestic sources and (iii) enhancement of predictability in the market. Cross-cutting these pillars; market reforms, utilization of renewable resources, improvement of energy efficiency, deployment of new technologies and new infrastructure investments are the main objectives of Türkiye's policy.

Türkiye is party to UNFCCC and signed the Paris Agreement. Within its Nationally Determined Contribution (NDC), Türkiye submitted its target to reach 41% reduction in GHG emissions from BAU levels by 2030 and the emissions will peak by 2038. Within this framework, under the 11th National Development Plan (2019-2023) 13 targets were identified, including development of measures regarding reduction of carbon emissions by increasing the share of renewable energy sources in power generation, improving energy efficiency, carrying out emission control studies in GHG emitting buildings and diffusion of energy efficient buildings.

In parallel, Türkiye announced the National Energy Plan in 2022 which aims to both support economic growth and take the country's green energy transformation to the next level in order to meet the net zero targets until 2053. Accordingly, Türkiye will reach a total of 187.7 GW of installed capacity by 2035 and 74% of which will consist of renewables. The Plan also includes the target to install a total of 5 GW offshore wind capacity by 2035. Therefore, Türkiye is expected to significantly increase its investments in renewable energy in the upcoming period.

In line with the above mentioned strategies and targets, this action will support Türkiye's plans to tap the offshore wind energy potential by virtue of determination of eligible sites and launch of auctions for offshore wind energy generation. It is also among the priorities identified for the energy sector under EU's revised Indicative Strategy Paper for Türkiye for the period 2014-2020 and in compliance with the following action to achieve the results in the Energy sector.

Promotion of the renewable energy and energy efficiency: Harmonizing renewable energy and energy efficiency legislation with the EU acquis; building capacity to implement energy efficiency programs and renewable energy programs; promoting of renewable energy and energy efficiency applications in public buildings, facilities and municipal services including green transportation, and supporting energy efficiency in electricity and gas transmission/distribution grids and generation plants.

The European Commission (EC, for the European Union) and the Ministry of Foreign Affairs (for the Government of Türkiye) have signed a Financing Agreement under EU's 2019 Instrument of Pre-Accession Assistance (IPA) program to Türkiye. The execution of the project will be led by the Ministry of Energy and Natural Resources (MENR) and administered by the World Bank (WB). An Administration Agreement between the EC and WB and a Grant Agreement between the MENR and WB have been executed to finance the implementation of the project.

2. BACKGROUND

Türkiye plans to tap the offshore wind energy potential by virtue of determination of eligible sites and launch of auctions for offshore wind energy generation. The Ministry of Energy and Natural Resources (MENR) decided to launch an auction in 2018 for development of 1.2GW of offshore wind power development. However, this auction received little interest from developers given limited site preparation as well as the combination of a high price ceiling. The auction was thus postponed by MENR. Consequently, MENR's Directorate General of Energy Affairs (DGEA) decided to focus on de-risking the project and increasing transparency for bidders before issuing a new auction, and the EU agreed to provide financial assistance for site preparation (e.g. environmental and social risk assessment, geological and geotechnical surveys, meteorological and oceanographic analysis and measurements, techno-economic feasibility studies, and other technical reports, among others) and auction design activities under the EU IPA 2019 Program (IPA 2019). The WB will supervise the use of the EU IPA funds and provide them to MENR as a recipient-executed grant.

Additional capacity building on offshore wind is also required. MENR-DGEA has been working with Danish Energy Agency, ESMAP and Germany to increase the institutional capacity of MENR in offshore wind sector since 2017. In this regard, several workshops were held to share Danish and German experience in Türkiye with the participation of the relevant institutions and also several offshore site visits were conducted in Denmark and Germany. Moreover, about 15 staff of MENR have completed DTU's Offshore Wind Energy Course. In addition, a delegation of five staff from MENR and the transmission system operator (TEIAS) joined the ESMAP offshore wind workshop and study tour in the UK in June 2019, and 4 staff from MENR joined the ESMAP offshore wind study tour in the Netherlands, Germany and Denmark in September 2022, which helped the delegates to understand the importance of preparing a strategy and roadmap for development of offshore wind in the country as well as the advantages of detailed planning prior to launching tenders. The Turkish delegates suggested that additional capacity building in specific technical aspects of offshore wind development would be highly beneficial.

3. OBJECTIVES OF THE PROJECT

The overall objective of the Project is to assist the Government of Türkiye to integrate the climate into its development strategy and focus on a green, resilient, and inclusive energy sector through improving the investment potential for offshore wind energy generation.

In support of this aim, the Project will collect information and provide analyses in relation to the three potential development zones, which can be used to reduce uncertainty and development risk and thereby increase the attractiveness of future offshore wind auctions in Türkiye.

4. SCOPE OF SERVICES

In this regard under this assignment, the Consultant is expected:

- to provide a competent and experienced offshore and onshore project management capability to manage wind, metocean, environmental, geotechnical and geophysical surveys for the Turkish Government,
- to undertake measurements of the metocean environment (including floating lidar measurement),
- to develop a Terms of Reference for geological, geophysical and geotechnical surveys¹,
- to conduct desk top analysis of technical and economic financial feasibility,

¹ Geological, geophysical and geotechnical surveys will be conducted under a separate Contract by a different Consultant.

- to review existing legislation to enable offshore wind development and to prepare a preliminary framework for auction design,
- to provide full analysis of data collected through the surveys under this assignment and also through the geological, geophysical and geotechnical surveys which will be made available to third parties,
- to conduct trainings and knowledge development activities.

The spatial extent of this assignment will cover three potential development zones ('Zones') selected by the DGEA for potential offshore wind development in the Marmara Sea shown in Figure 1. Thereafter the work will necessarily focus on the Zone or Zones with the highest demonstrable potential to lead to the allocation of sea-bed rights, following a successful auction.

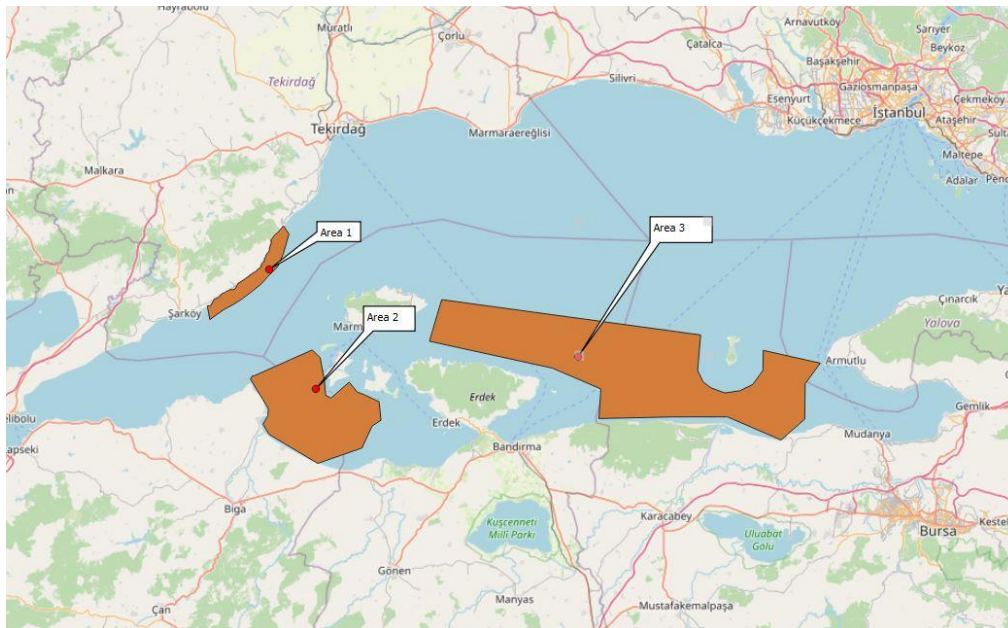


Figure 1: IPA 2019 Sites selected by the DGEA

A decision gate will be included before geological, geophysical and geotechnical surveys to agree the future allocation of funding and application of high cost surveys to ensure value for money is achieved.

Training and knowledge development is a key part of IPA 2019 and will be integrated into all sub-components of this assignment. MENR staff will be granted access to and trained on-the-job for all analyses and desk studies to ensure transfer of know how along with development of site-specific in-house capacity for further revisions. Hands on training will be implemented for key topics such as metocean and ground investigation surveys. Transfer learning (work shadowing) of all other areas will be appropriately resourced to improve understanding.

All the consultants under the Project will work in close cooperation and will be open for sharing data and reports, including but not limited to those stipulated in the ToRs, upon the request of the Client.

The Project demands deliberate and open engagement with civil society to be encompassed within the work. This will create the backbone of the awareness raising activities required. Close cooperation and coordination will be provided with public institutions, NGOs and the public.

4.1 TASK 1: Meteorological and Oceanographic Data Acquisition, Analysis and Reporting

The Consultant shall carry out meteorological and oceanographic analysis and measurements to appropriately characterise the metocean conditions at the three Zones over a period of 16 months.

The Consultant shall design the data collection campaign to efficiently ensure the incorporation and analysis of existing relevant meteorological and oceanographic data. The measurement campaign should be designed to calibrate existing data where appropriate.

The Consultant shall install appropriate meteorological and oceanographic measurement systems, including offshore and onshore wind measurements, to enable robust definition of long-term energy yields and substructure designs as follows:

- a. Acquire 12 months high quality and reliable offshore wind resource measurements in the Area 1 (Figure 1). Also include oceanographic data to support the design of substructures.
- b. Acquire 2 months high quality and reliable offshore wind resource measurements in the Area 2 (Figure 1). Also include oceanographic data to support the design of substructures.
- c. Acquire 2 months high quality and reliable offshore wind resource measurements in Area 3 (Figure 1). Also include oceanographic data to support the design of substructures.
- d. Acquire 16 months onshore wind resource measurements (mast or lidar) proximal to all three Zones for 16 months.

The meteorological and oceanographic measurements will take place in three zones (Figure 1) for a total of 16 months. The measurement periods specified for each site may vary during project implementation, however the measurement system will be redeployed twice between the zones.

The Consultant shall manage the meteorological and oceanographic measurement system installation, operation and data analysis reports, including wind resource assessment and wave mode analysis and other relevant studies.

All survey data will be fully interpreted, assessed and reported with a focus on allowing 3rd parties to gain a full understanding of the onsite metocean environment.

4.2 TASK 2: Review of Legislative, Regulatory Framework and Project Financial Feasibility

The Consultant shall provide a competent and experienced offshore and onshore project management capability to manage wind, metocean, environmental, geological, geotechnical and geophysical surveys for the Turkish Government. Including, responsibility for Quality, Health, Safety & Environment (QHSE) of the survey works; responsibility for budget and programme for all survey works; interface with Turkish Government and external partners as required; internal and external reporting as required; developing appropriate scopes of work (e.g. geotechnical, geophysical and Unexploded Ordnance (UXO)) and support the procurement process for geological, geophysical and geotechnical surveys.

4.2.1 TASK 2.A Technical, economic and financial feasibility assessment for potential offshore wind power projects in three development zones

The Consultant shall prepare a technical, economic and financial feasibility report (bankability assessment, risk allocation, credit enhancement requirements, cash flow/debt service/investment return/LCOE/CAPEX/OPEX calculations) and recommendations on financial mechanisms to ensure private sector participation. This will be a full-fledged feasibility study to be benefitted by future investors at the investment stage. The study is also expected to focus on the availability of the ports located in the area and also cover issues related to supply chain.

As this study will address site suitability for tendering, the Consultant should also make use of existing environmental and social reports together with the reports developed under Component 2 of this Project and include the assessment of risks and management options for environmental and social issues and high-level workforce needs in the report.

4.2.2 TASK 2.B Reviewing Existing Legislation

The Consultant shall review all relevant and necessary legislations and regulations to enable the development of offshore wind power projects including but not limited to Coastal Law, Energy Efficiency Law (Law no: 26510), Electricity Market Law (Law no: 6446), Electricity Market Licensing Regulation, Environmental Law (Law no: 2872), Regulation on Renewable Energy Resource Areas (YEKA), Turkish President issued decision o: 3453 (new YEKDEM tariff). The Consultant will identify any legislative or regulatory gaps for offshore wind power projects, and provide recommendations for the relevant authorities to close those gaps.

4.2.3 TASK 2.C Preparation of a Preliminary Auction Design

The Consultant shall prepare a preliminary auction design which is limited to an initial framework for the leasing design including commercial design, delivery timelines and performance expectations etc.

4.3 TASK 3: Ground Conditions Data Acquisition Strategy and Management

The Consultant shall produce a 'ground conditions data acquisition strategy' for each of the three Zones to support the design of geophysical and geotechnical surveys.

- a. Develop a ground conditions data acquisition strategy to cover the following options:
 - i. One detailed survey of one Zone
 - ii. Two surveys of two zones
- b. Include a functional specification of the geophysical and geotechnical surveys targeting the efficient use of funds available to characterise ground risk.

The Consultant shall develop a detailed Terms of Reference for geological, geophysical and geotechnical surveys which will be conducted under a separate Contract by a different Consultant at specific offshore sites to be decided by MENR. The studies include (i) echo-sounding measurements, (ii) side-scan sonar (SSS) investigations, (iii) seismic investigations, (iv) magnetometer and active metal detection surveys and (v) drilling and sampling for micro siting of offshore wind turbines.

4.4 TASK 4: Grid Connection Feasibility Assessment

The Consultant shall undertake a grid connection feasibility assessment for each of the three areas assuming a total of 1 GW offshore wind farm is required to be connected within the region. Assessment to include:

- a. Grid overview and key connection options to include:
 - Overview of transmission lines and substations.

- Overview of planned reinforcements and reinforcements that are under consideration but not yet triggered.
 - Overview of further reinforcements that could be triggered by new projects.
 - Overview of local generation and interconnector characteristics.
 - Summary of regional demand.
- b. Assessment of current connection capacity at specific locations based on existing infrastructure
 - c. Assessment of future connection capacity (2035)
 - identify reinforcements that could be triggered to release the target connection capacity. This will look at the capacity available within the long term, highlighting key dates that capacity may be released.
 - d. Transmission system reinforcement programme

The Consultant shall undertake a cable route assessment to provide an assessment of landfall and onshore cable routes from an engineering perspective, to include:

- a. Export Cable Landfall – carry out an assessment of cable landfall locations.
- b. Onshore Cable System - carry out an onshore routing investigation. The preferred routing will be based on ground conditions, jointing locations, cable spacing, trenching, site access, and cable route construction profiles.

4.5 TASK 5: Training and Knowledge Development

The Consultant shall organize a study visit for 10 MENR personnel (at least 1 personnel from the PIU Unit) to experienced EU Member States in offshore wind activities and technologies such as Belgium, Ireland, Sweden and Finland. (The final location of the study visit will be decided together with the End-Beneficiary).

The Consultant shall produce a 'Training and Knowledge Development Content' setting out how it will develop skills and experience in relation to the scope of work. The 'Training and Knowledge Development Content' must be approved by the MENR.

The Training and Knowledge Development Content will cover all aspects of the work and include the following key learning areas:

- a. Wind Pro (including full annual licenses for 3 MENR staff for the duration of the work)
- b. Offshore wind levelized cost of energy
- c. Offshore wind tendering and auction design
- d. Grid connection feasibility and process assessment
- e. Offshore wind financing and cost management
- f. Wind resource assessment practices

- g. Offshore wind environmental and social management practices and experience (including birds and mammals)
- h. Offshore wind and industrial policy and supply chain planning

The Training and Knowledge Development Strategy shall include:

- a. A total of 3 training events, one for each of the key learning areas for up to 20 staff from MENR and its related, affiliated and attached institutions and NGOs/universities located in Ankara. The trainings will take place in MENR's premises at no additional venue cost or participant travel costs envisaged to the consultant. The scope of the trainings shall cover the topics including but not limited to wind pro, offshore wind finance and costing, supply chain planning, offshore wind auction design, floating wind, workforce planning, grid connections, port planning, environmental and social management, feasibility assessment etc. The duration of each training will be decided by MENR according to the content.
- b. Additionally, an offshore wind expert/policy developer/practitioner will regularly visit Türkiye every month for 2-3 days throughout the project implementation for peer learning purposes. The Consultant shall propose a peer learning agenda for these visits.

4.6 TASK 6: Development of Website content

The Consultant shall develop content for MENR's project website (enerjiprojeleri.eu) where posts, announcements and videos will be regularly shared to increase awareness on offshore wind technologies and the visibility of the project among the public. Throughout the project implementation the Consultant will be responsible for developing regular and qualified technical content to keep the website up-to-date. All content shall be approved and shared on the website by MENR. All the rights of the website content developed under this project will be transferred to MENR.

To be submitted concurrently with the Final Report, the Consultant shall prepare a report on the overall performance of the website and the visibility activities carried out throughout the implementation. The Consultant shall also submit the recordings and presentations of all trainings to MENR.

5. DELIVERABLES

5.1 Reporting Requirements

The Consultant will submit the soft versions of the following reports in English and Turkish:

Inception Report to be produced after one month from the start of implementation. In the report the Consultant shall describe e.g. initial findings, progress in collecting data, any difficulties encountered or expected in addition to the work programme and staff travel. The Consultant should proceed with his/her work with the approval of the report by MENR.

Interim Progress Reports to be delivered quarterly describing concisely progress of the work, difficulties encountered, observed factors influencing the assumptions, and documentation that specific results and objectives have been reached. They must be provided along with the corresponding invoice, the financial report and an expenditure verification report.

Outline of output reports: As this assignment progresses, the Consultant shall submit draft outline or table of contents for each main output report for PIU to review. The Consultant will then incorporate PIU's input on the scope and the contents toward finalizing each report.

Task 1 Output:

- **Meteorological and Oceanographic Analysis and Measurements Report**

Task 2 Outputs:

- **Technical, Economic and Financial Feasibility Report for potential offshore wind power projects in three development zones**
- **Report on the review of existing legislative and regulatory framework to enable the development of offshore wind power projects in Türkiye**
- **Report of an initial framework of an auction design for offshore wind power projects in Türkiye**

Task 3 Outputs:

- **Ground Conditions Data Acquisition Strategy**
- **Terms of Reference for geological, geophysical and geotechnical surveys at specific offshore sites**

Task 4 Output:

- **Grid Connection Feasibility Assessment Report**

Task 5 Outputs:

- **Training and Knowledge Development Content**
- **Training Reports**

Task 6 Output:

- **Website Content and Visibility Report**

Draft Final Report shall be submitted no later than one month before the end of the period of implementation of tasks.

Final Report with the same specifications as the draft final report, incorporating any comments received from the parties on the draft report. The deadline for sending the final report is 10 days after receipt of comments on the draft final report. The final report must be accompanied by the final invoice, the financial report and an expenditure verification report. The financial section must contain details of the time inputs of the experts, of the incidental expenditure and of the provision for expenditure verification.

5.2 Submission and Approval of The Reports

The reports referred to above must be submitted to the Project Manager identified in the contract. All versions of all materials produced within the scope of all activities listed above and detailed in Scope of Work section must be delivered in the format requested by MENR. All other designs, texts and draft versions of the outputs will be submitted to the approval of Steering Committee. All reports mentioned in this section above will be approved by the Steering Committee members. No output will be published without Steering Committee approval. The Project Manager is responsible for notification of report approvals.

All the reports and manuals under the project will be submitted in both Turkish and English languages, soft copies of the reports will be submitted in editable and ready to publish version (i.e. MS Word). The

Turkish version of the reports should be prepared after the approval of English version. Reports shall be submitted to the DGEA, DGFR, WB and the EUD via an e-mail first at the end of each reporting period specified above. The comments and/or revision requests on the reports will be submitted to the Consultant via e-mail within 15 calendar days after the receipt of them. The Consultant shall revise the report based on the comments and re-submit it within 10 calendar days via e-mail. If no comments are sent within 10 calendar days by the Beneficiary, WB and EUD, the final version can be processed as approved copy. In case of further comments and/or revision requests, the same cycle as outlined above will be done; however, for the purpose of timely finalization of the report, the parties may agree on different time limits. The translations will be proofread by a native speaker to both languages before submitting.

6. MANAGEMENT AND COORDINATION

The Consultant is responsible for the production of any design and content required within the scope of the project and should be able to carry out these works without the contribution and assistance of DGEA. In addition, DGEA and related institutions can use data, information, project output, etc. to be used to create public awareness. In any case, the Consultant is expected to carry out an effective exchange of ideas with all stakeholders. In this context, DGEA, the relevant institutions / units of the Ministry, especially the MENR DGFR and the World Bank should be contacted. DGEA is the final approval authority for all kinds of content produced within the scope of the project.

The **MENR DGFR (PIU)** is the Contracting Authority of the project. The Contracting Authority will be responsible for tendering, contracting, administration, overall project supervision, review and final approval of the reports, financial management including payments of project activities.

MENR DGEA is the end beneficiary for all activities and responsible for utilization of new and renewable energy resources, providing necessary consultancy for and utilization of renewable energy, preparation and launching of renewable energy auctions/tenders, and determination of renewable energy targets and projections for Türkiye. The End Beneficiary is responsible for the overall technical implementation of the project.

The Consultant is responsible for conducting the exchange, coordination and approval processes described in this Terms of Reference. In this context, the Consultant is expected to appoint a Project Manager who will be in direct contact with MENR, including coordination and approval. It is important that the Project Manager is experienced in project management and public relations in the energy sector. MENR will designate one of the PIU employees as Project Manager on behalf of MENR.

For the purposes of this contract a **Steering Committee** will be established to meet for discussing the progress of the project, verify the achievement of the outputs and mandatory results and discuss actions to be undertaken for the successful implementation of the project. Steering Committee will be chaired by the representative of the PIU. It will consist of representatives from the DGEA, DGFR and the WB. Representatives of DEUA and EU Delegation will also attend to the Steering Committee meetings as observers. DGEA, when necessary, may invite other relevant participants to the Steering Committee meetings. The meetings will be convened on a quarterly basis and also on ad hoc basis when deemed necessary by its members. The Consultant is obliged to attend the relevant experts to the meetings and to provide information about the project in the meeting. The responsibility for the organization of the Steering Committee meetings including preparation of minutes lies with the Consultant. The Steering Committee meetings shall be organized in Ankara at the premises of the DGEA.

On the other hand, DGEA or DGFR may request the organization of physical or online ad hoc meetings with the representatives of the consultant in order to discuss the progress of the project in a monthly basis.

To fully implement the above general assignment, the Beneficiary will provide the Consultant with appropriate support. This includes notably:

- Co-operation with the Consultant during the execution of the assignment in tasks relating to data and document collection, facilitation of the contacts and logistics that might be deemed necessary for the performance of specific tasks,
- Provision of the set of documents required for implementation of the assignment or, whenever such documents are held by another authority, to assist the Consultant in retrieving these documents,
- Assistance to the Consultant in accessing the relevant national legislation or other national regulations that form the basis for the work,

DGEA will provide venue for the kick-off meeting and the Steering Committee meetings of the project.

For capacity building activities proposed by the Consultant, training venue will be provided by the Consultant.

7. QUALIFICATION REQUIREMENTS

The Consultant will be selected in accordance with the guidance titled “The World Bank Procurement Regulations for IPF Borrowers –November 2020 (“Procurement Regulations”)”. The Consultant shall

provide experienced staff with proven technical and managerial competence and experience in the scope of services of this Project. The Consultant shall separately indicate the task assignments for each staff.

i) Consultant Profile:

The Consultant should have similar previous experience in the scope of services and demonstrate sound administrative and technical capacity. The Consultant may associate with other firms to enhance their qualifications but should indicate clearly whether the association is in the form of a joint venture and/or a sub-consultancy. In the case of a joint venture, all the partners in the joint venture shall be jointly and severally liable for the entire contract, if selected.

ii) Team Composition:

The working language of the project is English. All the team members assigned by the Consultant must possess proficiency in the English language. Day-to-day communication language will be Turkish or English at the field level to ensure smooth communication among all direct and indirect stakeholders and participants of the Project.

The Consultant shall submit CVs and statements of exclusivity and availability for the key experts.

All key staff and support staff experts and non-key experts shall be mobilized immediately after the contract signature.

8. TEAM COMPOSITION

8.1 Key experts

Key experts have a crucial role during the implementation the contract. This “terms of reference” contains the required key experts’ profiles. The tenderer shall submit CVs and statements of exclusivity and availability for the following key experts:

1. Team Leader:

Qualifications and Skills:

- Advanced university degree in wind engineering, electrical engineering, power engineering or related fields;
- At least 10 years of relevant professional experience in the field of offshore wind energy; offshore wind deployment and policy; or offshore wind project development

- At least 10 years of experience in electricity generation project coordination and management, including offshore wind power projects.

2. Offshore Wind Energy Technical Expert:

Qualifications and Skills:

- Advanced university degree in wind engineering, electrical engineering, power engineering or related fields
- Minimum 10 years professional experience in wind resource assessment;
- Minimum 10 years professional experience in marine construction assessment
- Expert at applying state of the art international resource assessment models
- Extensive practical experience conducting resource assessment modelling for offshore wind

3. Offshore Wind Business, Commercial, Planning Expert

Qualifications and Skills:

- Advanced university degree in engineering, business, economics, law or related fields
- Minimum 10 years professional experience in offshore wind business, commercial, planning
- Minimum 10 years professional experience in offshore wind deployment and policy

4. Economic and Financial Expert

- Advanced university degree in economics, finance, business or related fields
- At least 10 years of experience in electricity generation project development, including wind power projects
- Prior experience on Turkish wind power projects is preferred

5. Legal Expert

- University degree in law with a valid license to practise in Türkiye
- At least 15 years of experience in infrastructure business legal practice
- Prior experience on Turkish wind power projects is preferred

8.2 Non-key experts

CVs for non-key experts should not be submitted in the tender but the tenderer will have to demonstrate in their offer that they have access to experts with the required profiles.

The Consultant must select and hire other experts as required according to the profiles identified in the organization & methodology and these terms of reference. An environmental expert with seasoned expertise in preferably offshore wind related marine biology and a social expert with seasoned expertise in social and economic impact assessment and social science research methods should be included in the team of non-key experts. The Consultant must clearly indicate the experts' profile so that the applicable daily fee rate in the budget breakdown is clear. All experts must be independent and free from conflicts of interest in the responsibilities they take on.

9. DURATION OF THE SERVICES

The total duration of Consulting Services will be 18 months.

Inception Report – Within 4 weeks following the commencement of services

Interim Progress Reports – Every three months from the commencement of services

Draft Final Report – 17th month

Final Report – 18th month

Task 1 Meteorological and Oceanographic Analysis and Measurements Report – 2 months after completion of 16 months data collection

Task 2.A Technical, Economic and Financial Feasibility Assessment - 2 months after completion of 16 months data collection

Task 2.B Report on The Review of Existing Legislation – 6 months after commencement of services

Task 2.C Report on Initial Framework of an Auction Design – 8 months after commencement of services

Task 3 (I) Ground Conditions Data Acquisition Strategy – 3 months after commencement of services; (ii) Terms of Reference for geological, geophysical and geotechnical surveys at specific offshore sites – after 12 months of meteorological and oceanographic data collection

Task 4 Grid Connection Feasibility Assessment Report – 5 months after commencement of services

Task 5 (I) Training and Knowledge Development Content –6 weeks after commencement of services; (ii) Training Reports – within 1 week following each training

Task 6 Development of Website content– Throughout the implementation of the project

10. FACILITIES TO BE PROVIDED BY THE CONSULTANT

The Consultant shall ensure that experts are adequately supported and equipped. In particular it must ensure that there is sufficient administrative, secretarial and interpreting provision to enable experts to concentrate on their primary responsibilities. It must also transfer funds as necessary to support their work under the contract and to ensure that its employees are paid regularly and in a timely fashion.

The Consultant must also ensure the timely delivery of all activities and reports and in case of a possible delay the Consultant must undertake necessary precautions and report the inconvenience to the DGFR and DGEA immediately.

The Consultant will be responsible for provision of the services detailed under “4. Scope of Services” including the following:

- The Consultant shall cover the administrative costs of employing the relevant experts, such as relocation and repatriation expenses (incl. flights to and from Türkiye upon mobilization and demobilization), accommodation, expatriation allowances, leave, medical insurance and other employment benefits accorded to the experts by the Consultant.
- All economy class travel from Türkiye to selected country and from selected country to Türkiye, accommodation costs (at least three-star hotel), in-city traveling arrangements, subscription/visitor fees to related institutions as well as meal/beverage expenses of the participants will be covered by the Consultant.
- The Consultant shall provide office equipment and cover office running costs that necessary for the implementation of the project.
- The Consultant will cover cost of study visits including travel (national and international including inter and intra city travels), accommodation (in at least 3-star hotel or equivalent) and meals and beverages of the participants as well as fees of the institution to be visited and visa costs, etc.
- The Consultant will meet the cost of translation and interpretation (including the costs of simultaneous translation for trainings, meetings, study visits, workshops and translation of all reports).
- The Consultant will ensure proper communication (English/Turkish) with interlocutors and language barriers should be addressed by the Consultant during implementation.

- The Consultant will cover cost of visibility materials, including printing, duplication and dissemination.

Actual costs paid for travel and accommodation could be covered under the project budget. However, no pocket money shall be paid to civil servants in any case.

In any case, for all participants of this project's activities, daily costs shall not exceed the per diem rates published on the below-mentioned EuropeAid website.

http://ec.europa.eu/europeaid/work/procedures/implementation/per_diems/index_en.htm

11. GENERAL RULES ON PUBLICITY AND VISIBILITY FOR EU FUNDED PROJECTS

The Consultant shall take all necessary measures to publicize the fact that the European Union has financed the Program.

In addition, the Consultant shall take the necessary measures to ensure the visibility of the European Union financing or co financing. These measures must comply with the rules laid down and published by the Commission on the visibility of external operations: https://ec.europa.eu/europeaid/communication-and-visibility-manual-eu-external-actions_en

All projects /contract implemented under this program shall comply with the **Visibility Guidelines for European Commission Projects in Türkiye** published by the EU Delegation to Türkiye, at: <http://www.avrupa.info.tr/en/learn-about-eu-visibility-guidelines-16>. The guidelines are prepared based on "Communication and Visibility Requirements for EU External Actions" published in 2018, describes implementing partners' legal obligations and the mandatory elements of the communication and visibility measures that must accompany all actions co-financed by the EU.

All communication and visibility activities should be carried out in close co-operation with the WB. The WB is the main authority in charge of reviewing and approving visibility-related materials and activities. Before initiating any information, communication or visibility material and activity, Consultant and implementing partners should seek the approval of the WB in writing.

The EU-Türkiye cooperation logo should be accompanied by the following text:

“This project is co-financed by the European Union and the Republic of Türkiye.”

Whether used in the form of the EU-Türkiye cooperation logo for information materials or separately at events, the EU and Turkish flag have to enjoy at least double prominence each, both in terms of size and placement in relation to other displayed logos and should appear on all materials and at all events as per the Communication and Visibility Manual for European Union External Actions. At visibility events, the Turkish and the EU flag have to be displayed prominently and separately from any logos.

Logos of the Beneficiary institution and the WB should be clearly separated from the EU-Türkiye partnership logo and be maximum half the size of each flag. The logos will not be accompanied by any text. The WB and Beneficiary logo will be on the lower left-hand corner and lower right-hand corner respectively. The Consultant’s logo with the same size will be in the middle of the WB and Beneficiary logo. If the Consultant is a consortium, only the logo of the consortium leader will be displayed.

Any publication by the Consultant, in whatever form and by whatever medium, including the Internet, shall carry the following or a similar warning: *“This document has been produced with the financial assistance of the European Union”*. In addition, the back cover of any such publications by the Consultant should also contain the following disclaimer: *“The contents of this publication are the sole responsibility of name of the author/Consultant/– and can in no way be taken to reflect the views of the European Union, World Bank Group and MENR”*.