

Consulting Services for a Feasibility Study Wind Park Miravci

International Public Bidding (with Pre-qualification)

Country:	Republic of North Macedonia
Reference-No.:	BMZ-No.: 2020.6832.8 KfW Procurement No.: 507069 WBIF-Project No.: ---
Submission Deadline:	28 July 2021: 15:00 CEST
Prequalification:	Invitation for Expression of Interest
Reference:	International open tender for consulting services for a feasibility study for the Mirvaci Wind Park in North Macedonia
Employer:	JSC Power Plants of North Macedonia
Financing:	Financing of the services including the required sub-studies will be made by KfW with a grant from the BMZ's Study and Consultancy Fund..
Project Background:	<p>The Project Energy Transition – Renewable Energy Programme North Macedonia aims to promote the use of renewable energies in replacement to electricity generation based on fossil fuels to contribute to Climate Protection activities through CO₂ savings and shall provide some incentives to the local economy, as well.</p> <p>The Employer plans to establish the Wind Park “Miravci” with a minimum installed capacity of 50 MW with an envisaged annual power generation of 150 GWh, i.e. a capacity factor of 34%, or 3,000 full load hours.</p> <p>The Project will be located on governmentally owned land in the area of the Village of Miravci, Municipality of Gevgelija. The location of the wind park is on the southern part of the gorge Demir Kapija at an altitude of 390 – 700 m and is characterized by relatively rough terrain with low vegetation. The area is bordered by a section of the Demir Kapija – Smokvica highway to the west and by the Vardar River to the east.</p> <p>There are several preliminary studies and design documents available from earlier project stages.</p>
Project Measures:	<p>The assignment is to implement a feasibility study up to the level of design documentation, including all assessments and studies in line with the applicable standards of the German Financial Cooperation.</p> <p>The feasibility study shall form the basis for the subsequent investment decision and tender for the implementation consultant, as well.</p>
Requested Consulting Services:	<p>The Feasibility Study Consultant shall provide expertise in the following main tasks:</p> <ul style="list-style-type: none">➤ The purchase, installation, operation, and maintenance of two (2) wind measuring masts of at least 120 m tower height in line

with KfW's Minimum Requirements for Wind Measuring Campaigns is part of the Consultant's scope.

- Performance of Wind Measurement Campaign with two measuring masts for a minimum period of 12 months. In case the Consultant deems it necessary, the measuring campaign shall be complemented by LIDAR measurements.

The measuring campaign shall be continued until the Feasibility Report has been approved by KfW. After completion of the measuring campaign, the masts shall be handed over to the Employer who will continue with the wind measurement campaign.

- Performance of a full wind resource analysis and energy yield assessment, after a completed wind measurement period of at least 12 months in line with KfW's Requirements for Wind Resource Analysis and Energy Yield Assessments. The results of this study component shall be communicated to KfW at earliest convenience for a review. KfW may require a second opinion on the results of the study component (such an order will be awarded by KfW on direct basis).
- Performance of a technology review, which shall address the site suitability requirements for wind turbines, propose a wind turbine rating, analyse available wind turbine types, propose a micrositing, inner-park access roads, inner-park cabling, interface substation and support infrastructure arrangements.
- Performance of a full Environmental and Social Impact Assessment for the Project in accordance with the Environmental and Social Guidelines of KfW, the World Bank Group's General Environmental Health and Safety (EHS) Guidelines and the EHS Guidelines for Wind Energy and considering the requirements of the decision No. 11 – 885/6 dated on 09.07.2018 Ministry of Environment and Physical Planning as well as other applicable guidelines.
- Performance of Birds and Bats monitoring campaign to cover at least two migration seasons. The Consultant shall include a specialized consultancy to perform this work.
- Performance of Geophysical and Geotechnical Investigations including bores at all proposed wind turbine locations and the interface substation.
- Performance of a Transport Route Assessment, which shall define the transportation route from Thessaloniki harbour to site and which shall include required road improvements, road expansions, removal of street furniture, and building of new access roads and by-passes.
- Performance of Grid Access and Transmission Route Analysis. The Consultant shall review the proposed transmission line routing and include a brief summary of the grid code requirements for the connection of wind energy converters.

The Consultant shall further review the existing grid study made by MEPSO and, if necessary define new studies to be performed to fulfil the requirements of the grid code.

- Preparation of the preliminary wind farm design. Existing planning and design documents shall be reviewed and, as far as possible, considered for the Consultant's own design.
- Preparation and presentation of a bankable Project Feasibility Report

Services shall be provided by a team comprising of international and regional/local long-term experts and consultants.

The award of the Consulting services is planned for Q1/2022. The overall service period is estimated to approx. 18 months.

The selection process for the consulting services will be guided by the latest version of the "Guidelines for the Procurement of Consulting Services, Works, Plant, Goods and Non-Consulting Services in Financial Cooperation with Partner Countries".

<https://www.kfw-entwicklungsbank.de/PDF/Download-Center/PDF-Dokumente-Richtlinien/FZ-Vergaberichtlinien-V-2021-EN.pdf>

It is foreseen to assign the services to an independent consultant firm with proven experience in the preparation of similar projects with similar tasks. Consulting firms with experience in North Macedonia, Serbia, Montenegro, Albania, Kosovo, Croatia, Bosnia & Herzegovina, Armenia, Georgia, and the Ukraine are preferred (via the scoring system).

The Bidder shall show a necessary average annual turnover of more than EUR 2.0 million over the last three years. A consortium or joint venture needs to show a total average annual turnover of EUR 2.0 million over the last three years, whereas the lead partner shall show an average annual turnover of more than EUR 1.4 million.

More detailed information about the project, content and form of the application documents and the scope of services of the Consultant can be requested from the Tender Agent (TA). Without this information, it might not be possible to produce a compliant Expression of Interest. Moreover, detailed Terms of Reference will be provided to consultant that submitted an Expression of Interest and that have been successfully prequalified.

For any request to or correspondence with the TA, the responsible person of the Employer shall be copied.

Tender Agent: Rolf Gebhardt, Dipl. Ing. (TU)
Königsberger Straße 56
69502 Hemsbach
Germany
Email: rg@gebhardt-eas.de

Employer: Bjondina Hamidi
Project Manager
JSC Power Plants of North Macedonia
11 Oktomvri Street 9
1000 Skopje
Republic of North Macedonia
Email: bjondina.hamidi@elem.com.mk