



MINISTRY OF ENERGY AND MINERAL RESOURCES

SCOPE OF WORK FOR COMPREHENSIVE ENVIRONMENTAL IMPACT ASSESSMENT (EIA) STUDY

25 MW WIND POWER PROJECT IN THE BATN AL- GHOUL AREA OF THE MA'AN GOVERNORATE

1. INTRODUCTION

The Government of Jordan (GOJ) continues to advance reforms to improve the sustainability, security, and self-reliance of the national energy sector. In alignment with Jordan's renewable energy strategy, a 25 MW Wind Power Project will be developed with grant funding provided by the United Arab Emirates.

The Project will contribute to:

- Diversification of the national energy mix,
- Reduction of reliance on imported fossil fuels,
- Support of grid stability,
- Advancement of Jordan's renewable energy targets.

2. PROJECT DESCRIPTION

The Project involves the construction, operation, and maintenance of a 25 MW wind power plant. The project will include the installation of Wind Turbine Generators (WTGs), and the necessary grid interconnection infrastructure to enable the evacuation of generated electricity to the national grid.

2.1 Main Project Components

The Wind Power Project will consist of the following main components:

- Five (5) Wind Turbine Generators (WTGs) with a total installed capacity of 25 MW (5 MW each). The turbines will have a hub height of 105 m, blade length of 89 m, and a rotor diameter of 182 m.
- Medium Voltage (MV) underground cable network interconnecting WTGs.
- Earthing and lightning protection systems.
- Step-up transformers (MV to HV).
- Switchgear and protection systems.
- Control building and SCADA system.

2.2 Project Location

The Project will be developed on government-owned land to be allocated to the Ministry of Energy and Mineral Resources (MEMR) for the purpose of implementing this Project. The land area is approximately 1,456 dunums, located in the Batn Al-Ghoul area in Ma'an Governorate, Jordan. The precise location and coordinates are shown in Figure 1.

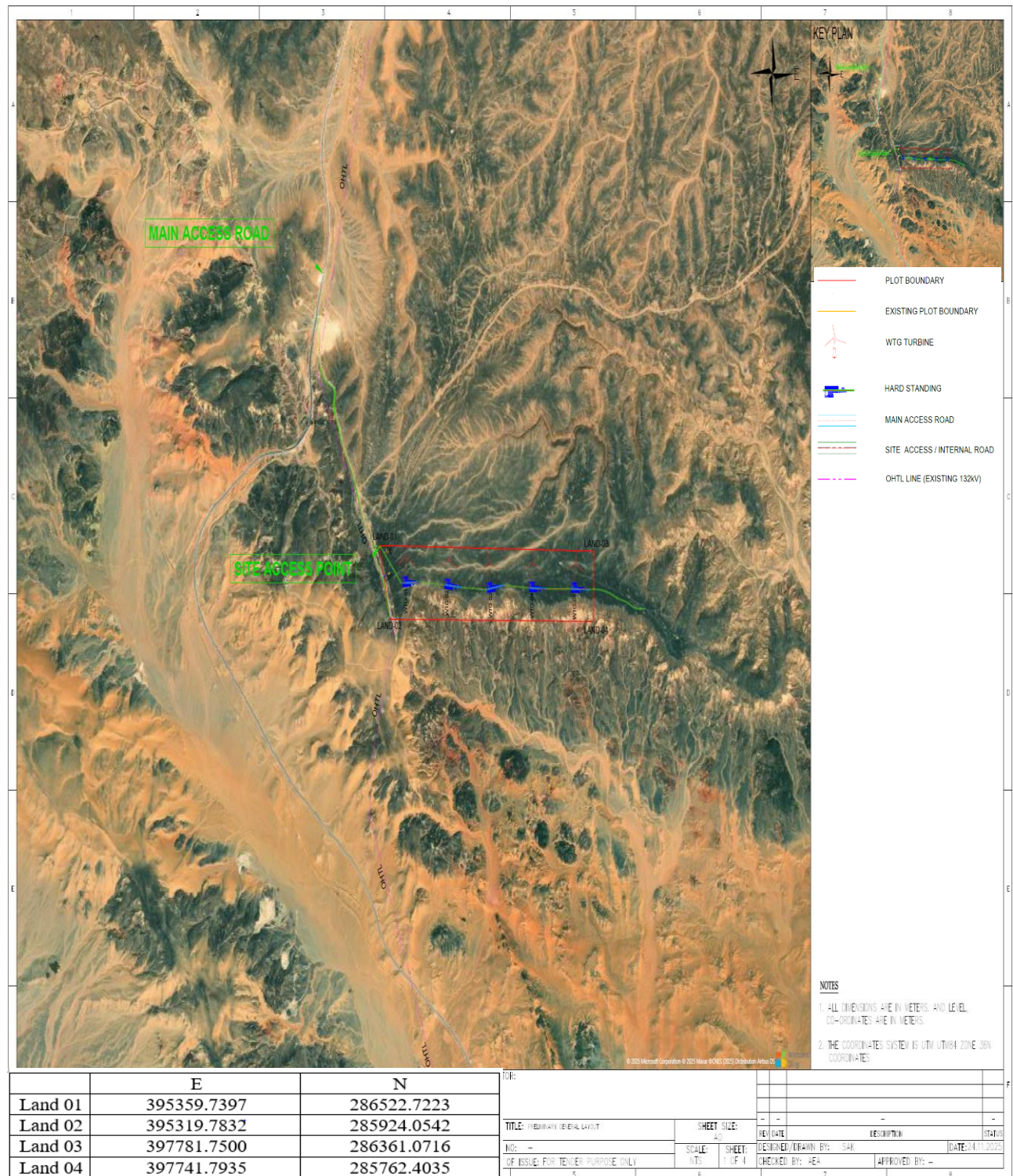


FIGURE 1: OVERALL GENERAL LAYOUT

3. BASIS FOR THE SCOPE OF WORK

- The Environmental Protection Law 2017, No. 6.
- Environmental Classification & Licensing Regulation No. 69 of 2020 and its amendments and appendices.
- Ministry of Environment regulations.
- Project Health and Safety procedures.
- Jordanian Standards for Ambient Air Quality.
- Noise Reduction and Prevention Instructions.
- Instructions for the management and handling of exhausted oils for the year 2014.
- Soil Protection Regulations.
- Public health law.
- Any related regulations, Laws and Bylaws.

4. SCOPE OF WORK

Environmental Impact Assessment (EIA) Study:

- The Consultant shall prepare a Comprehensive Environmental Impact Assessment (EIA) for the 25 MW Wind Power Project located in the Batn Al-Ghoul area in Ma'an Governorate, in accordance with the applicable Jordanian environmental regulations and the requirements of the Ministry of Environment. The scope shall include all studies, surveys, assessments, and documentation required to obtain the environmental approval for the Project, including but not limited to environmental baseline studies, risk assessment (if required by the Ministry of Environment), preparation of an Environmental Management Plan (EMP), and any other studies, surveys, or assessments required by the Ministry of Environment. The Consultant shall also conduct the required stakeholder consultations, prepare and submit all necessary documentation to the Ministry of Environment, and follow up with the

Ministry until obtaining the official approval of the EIA study. All reports and deliverables shall be provided in both English and Arabic.

- The Consultant shall organize and conduct scoping session(s), including covering the hosting costs for approximately 35 participants at a 5-star hotel in Amman. The number of scoping sessions shall be in accordance with the regulations and instructions of the Ministry of Environment.
- The Consultant shall attend all meetings requested by the Ministry of Energy and Mineral Resources and the Ministry of Environment throughout the assignment without additional cost.
- Bird and bat field surveys are excluded from the scope of this assignment and will be undertaken during the operational phase of the Project under a separate monitoring program. However, the Consultant shall conduct a **desktop study** to assess the potential impacts of the Project on birds and bats based on available information, published literature, and applicable national and international guidance. The Consultant shall also propose appropriate mitigation measures, operational monitoring requirements, and management procedures to minimize potential impacts on birds and bats, and incorporate these measures into the Environmental Management Plan (EMP).