GENERAL PROCUREMENT NOTICE

Arab Republic of Egypt

The integration of Wind Power in the Egyptian Power System & Establishment of Wind Integration Grid Code

1- The Arab Republic of Egypt has received a grant from the African Development Bank to finance the Study on the Integration of Wind Power in the Egyptian Power System & modification of the existing Wind Integration Grid Code according to the study outcomes.

2- The Principal of this project are to:
   - Review the impacts of integrating up to 7200 MW of Wind Power into the Power Grid.
   - Examine the impacts of wind farm characteristics on the potential static & dynamic stability issues
   - The main activities to be covered by the study:
     a. Review of available technical documentation
     b. Review and validation of dynamic PSS/E and/or DlgSILENT model of the Egyptian power system.
     c. Assessment of transmission capacity requirements based on load flow studies.
     d. Assessment of load following capability and reserve capacity requirements.
     e. Assessment of protection and Fault ride-through (FRT) capability requirements for both symmetrical and asymmetrical faults based on dynamic studies
     f. Modification of the existing Wind Integration Grid Code according to the study outcomes; and
     g. Developing suggestions on how to integrate wind forecasting in power system operation and planning in Egypt.

3- Modes of procurement:
   It’s a consultancy service to study the above mentioned topics; the process will be done according to the bank requirements.

3- The project includes the following components:
   - Technical report that is expected to include
     a. A wind power integration grid code that would determine the typical requirements for wind power generators and modification of codes for thermal units as may needed
b. A list of system requirements for smooth integration of newly installed wind power plants, which are essential for a secure and stable operation of the Egyptian Power System.

4- Interested bidders may obtain further information, and should confirm their interest, by contacting:

   **Egyptian Electricity Transmission Company**
   
   **Address:** Abbassia, Cairo, Egypt.  
   **P.C:** 11517

   **Contact Name:** Engineer/ Fatma Nada-consultant; "A" for Studies Sector
   
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