

Solar Energy Consultant Required



PEDO

PAKHTUNKHWA ENERGY DEVELOPMENT ORGANIZATION

Government of Khyber Pakhtunkhwa, PAKISTAN

Government of Khyber Pakhtunkhwa has embarked upon an ambitious journey to eliminate load shedding by way of fast track development of hydro energy projects and exploring other renewable energy avenues including solar energy. Pakhtunkhwa Energy Development Organization (PEDO) is leading this initiative of the provincial government by engaging and encouraging private sector investment. PEDO intends to engage the services of an expert Solar Energy Consultant for a short term (three to four months) to develop Solar Energy Strategy for the province of Khyber Pakhtunkhwa.

Terms of Reference and Scope of Services:

PEDO is interested to develop a solar electricity strategy roadmap in the field of solar photovoltaic (PV), for the province of Khyber Pakhtunkhwa. The consultant will assist PEDO in understanding the potential of solar PV for the province, developing a framework of technical and commercial criteria for planning and implementation of solar energy projects by attracting industry and financiers to the province. The consultant is expected to deliver on the following terms of reference:

1. Provide an overview of the state of the art in solar PV, international market trends and financial benchmarks, planning lessons to be learnt, the types of projects and technologies in vogue, the potential and suitability for KP, the criteria for defining and planning solar PV projects, strategies and methods to engage industry and finance for the fulfillment and growth of such projects in KP.
2. The deliverables should help PEDO in understanding key issues such as the capacity, scalability, variability, and economics of solar PV, optimal terms of engagements with industry and financiers for the fulfillment of solar PV projects.
3. The consultant is expected to make an assessment of solar energy potential of the province by identifying the feasible locations of solar PV projects taking grid connectivity and demand into consideration.
4. Advise PEDO on preparation of qualification and bidding documents and define the business heads of terms of key documents, what should be included in bids/tenders for projects, the criteria for selecting companies to fulfill projects, the various types of risks in such projects and strategies to mitigate these risks.
5. The consultant will be expected to spend a sufficient amount of time in Peshawar and other parts of Khyber Pakhtunkhwa in order to interact and engage with different stakeholders.

Qualification Criteria & Competency Requirements

1. The consultant should have accredited professional academic credentials and have at least five years of expert experience in solar electricity. The individual should have previous experience of developing/ implementing such large scale strategy for solar energy.
2. Experience of strategic planning of at least one large grid-connected, ground mounted and implemented solar PV project of 10MW or more.
3. Comprehensive knowledge of solar energy, including aspects of its technology, business economics and projects is required.
4. The consultant should be able to demonstrate knowledge of the planning for solar PV projects, the figure of merit and performance metrics of a solar PV project.
5. Experience in the early-stage planning for a large grid-connected ground mounted solar PV project in Pakistan.
6. Ability to specify the technical, functional, and commercial criteria for the systems integrators of solar PV projects.
7. Ability to techno-commercially model and explain the business economics of solar PV projects.
8. Demonstrable knowledge of Solar PV technology: based on crystalline silicon and thin-film materials.
9. Documents written by the consultant showing comprehensive understanding of the consultant in the field of solar PV.
10. Two client references evidencing the consultant's expertise in Solar PV.
11. Knowledge of and familiarity with the Khyber Pakhtunkhwa province.
12. Proficiency in English and Urdu languages.

Individual consultants fulfilling the mentioned qualification criteria and agreeing with the terms of reference may submit their application on the address mentioned within fifteen days after publication of this advertisement.

Director Human Resources
38-B/2 PEDO House, Phase V, Hayatabad, Peshawar
Tel: 091-9219579