

## Invitation for Technical & Financial Proposals

The SAARC Energy Center (SEC) Islamabad is a unit of the South Asian Association for Regional Cooperation (SAARC), Kathmandu. The SEC is interested to establish a “Pilot and Demonstration Project on Application of Shallow Geothermal Energy for Heating and Cooling of the Buildings”. The suitable organizations having technology and expertise are invited to send their technical and financial proposals including payment schedule in two separate sealed envelopes to Director SAARC Energy Centre, Islamabad latest by 21 Feb 2012 for the following geothermal units.

### **Unit 1: Split Type and Self Contained**

Cooling Capacity 12,000 BTU/Hr

Heating Capacity 24,000 BTU/Hr

### **Unit 2: Split Type and Self Contained**

Cooling Capacity 18,000 BTU/Hr

Heating Capacity 36,000 BTU/Hr

*Based on financial and technical proposals and budget allocation for the project, SEC will select suitable unit (s) of required heating and cooling capacity and type (split and self contained) from above mentioned units. The SEC reserves the rights to accept or reject proposals without assigning any reason.*

### **Objectives**

- Reduce electricity and natural gas used for heating and cooling by shallow geothermal energy which is widely available;
- Evaluate and demonstrate appropriate technology for heating and cooling
- Facilitate and promote regional R&D activities on geothermal energy.
- Examine technical and financial viability of shallow geothermal energy; and
- Build up confidence in RE technologies.

### **Terms of Reference (ToR)**

- i. The proposal should include the profile of the organization
- ii. SEC will select the suitable manufacturer or supplier of the system through competitive process;
- iii. As an accomplishment of the assignment, the selected organization will establish the pilot and demonstration project on identified location by SEC;

- iv. The organization will be responsible for repair and maintenance of the system including supply of required spares and accessories for a period of **two years** after installation and commissioning;
- v. The proposals shall include the option and cost of relocation of the system within Islamabad
- vi. Selected organization will examine the financial and technical aspects of this technology for adoption and commercialization in SAARC Countries;
- vii. Selected organization will assist SEC in evaluation of the technology and submit the completion report of the project including the mechanism and road map for replication of this technology in SAARC Countries to the Director SAARC Energy Centre as per given time schedule;
- viii. The selected organization will report to Director SAARC Energy Centre but will remain in close contact with all involved in the project;
- ix. The selected organization will ensure the availability of designated experts and required human resource as per requirement of the project. The Email would be the preferred mode of communication with SEC and all involved in the Study;
- x. SEC will make payments as per agreed schedule and requirement of the project.

### **Deliverables**

Established and Operational Pilot and Demonstration unit on Application of Shallow Geothermal Energy for Heating and Cooling the Buildings of suitable heating and cooling capacity conforming to the objectives and TORs as described above and completion report of the project.

**Time Schedule:** 3-Months after signing the contract with SAARC Energy Centre

### **Director**

#### **SAARC Energy Centre**

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Sector E-11/4, NPF,  
Islamabad, Pakistan