Call for Expressions of Interest

Geothermal Surface Exploration in Tendaho Alalobeda, Ethiopia

Project number: ICE23066-1301NDF Ethiopia/1

Financed under the ICEIDA/NDF Geothermal Exploration Project

Implementing Agencies: ICEIDA, Geological Survey of Ethiopia (GSE) and Ethiopian Electric Power Corporation (EEPCO)

Deadline for receipt of EOI: 22 October 2013 at 16.00 Icelandic time

1. Introduction

The Icelandic International Development Agency (ICEIDA) and the Nordic Development Fund (NDF) are co-financing a project to support geothermal exploration and capacity building in East Africa with ICEIDA as the lead funding agency and implementing agency. The project is the initial phase of the Geothermal Compact partnership, initiated jointly by Iceland and the World Bank. Iceland GeoSurvey (ISOR) will serve as a technical consultant to the funding and implementing agencies in this project.

The main objective of the Geothermal Exploration Project is to assist countries in East Africa to enhance geothermal knowledge and capacity in order to enable further actions on geothermal utilization in the respective countries. This includes support to the exploratory phase of geothermal development and capacity building in the field of geothermal investigations and utilization.

Under the Geothermal Exploration Project, ICEIDA and the Government of Ethiopia, represented by the implementing agencies, GSE and EEPCO, have established cooperation for support to geothermal development in Ethiopia. As a part of this cooperation surface exploration studies will be conducted in priority sites in Ethiopia.

ICEIDA, as the Client for the contract, now invites eligible, experienced and qualified companies from any country to express interest in being shortlisted to receive Request for Proposals for Geothermal Surface Exploration in Tendaho Alalobeda in Ethiopia. The contract will be mainly financed from NDF’s contribution to the project.

2. Selection process

The selection procedure follows NDF’s procurement guidelines and will be based on a Quality- and Cost-based Selection (QCBS) among not more than six shortlisted consulting firms or associations of firms. The shortlisting shall be based on expressed interest, proven ability to conduct the work (based on experience of comparable projects, financial and managerial capacity and human and technical resources in the relevant fields), geographical spread and other relevant issues. Request for Proposals (RFP) will be issued at a later date only to the shortlisted firms/joint ventures. Shortlisted firms/joint ventures will not be allowed to associate with each other after the shortlisting.
For expression of interest, the firms may associate with other interested firms in order to enhance their qualifications. The association may be in the form of a Joint Venture or through sub-consultancy arrangements. In both cases the expression of interest shall include a formal declaration of intent to associate for submission of proposal and, if selected by the Client, for provision of services.

To be eligible for shortlisting, a firm shall not have conflict of interest related to the assignment and it shall not be under sanctions or debarment by Ethiopia, Iceland/ICEIDA, NDF or multilateral development banks.

3. Contract type

The work of the consulting firm will be carried out under a lump sum contract, under which the services are performed for an all-inclusive fixed price paid against specific deliverables. Deliverables may include but not necessarily be limited to:

- Raw data, reports and maps resulting from multi-disciplinary geothermal exploration study
- Conceptual model integrating new data, collected within the current project and existing data from previous studies
- Volumetric assessment of the Alalobeda geothermal resource
- Proposal of 4 drilling targets and corresponding well design
- Transfer of knowledge and techniques for geothermal surveys and modeling for the implementing agencies

4. Scope and schedule of services

4.1. Site to be investigated

Tendaho is a 50 km wide NNW trending graben of Quaternary age located about 600 km N of Addis Ababa. The Tendaho graben hosts the Afar Triple Junction where the Gulf of Aden, the Red Sea and the main Ethiopian Rift come together. Three geothermal fields are identified near the town of Tendaho in the Tendaho graben. These are Dubti (sometimes referred to as Tendaho proper), Ayrobera and Alalobeda (sometimes referred to as Alalobad). These three fields are collectively referred to as the Tendaho fields although they are separated by about 20 km from each other. The Tendaho geothermal fields are located where NNE trending faults of the Ethiopian rift system intersect the dominant NNW trend of the Tendaho graben.

The Alalobeda geothermal area is the focal area of this geothermal exploration contract. Alalobeda is the southernmost area of the three Tendaho areas, located along the NNW trending boundary fault of the Tendaho graben and to the south of the fault within the Afar Stratoid series basalts in the Megenta Range.

4.2. Geothermal Surface Exploration Study

The Consultant needs to carry out the following studies:

- MT/TEM survey
- Gravity survey
- Ground magnetic survey
• Microseismic study
• Geological and geochemical (incl. isotopic) studies to validate results of previous investigations
• Structural analysis of the Tendaho Graben (Ayrobera, Dubti and Alalobeda) using remote sensing data

The MT/TEM soundings, ground magnetic survey, and the gravity survey will be carried out using equipment owned by GSE whereas the consultant will be required to supply some own/rented equipment for the microseismic survey to complement GSE’s equipment. The Consultant will jointly interpret the results of the different studies and results from existing studies in order to synthesize a conceptual model of the geothermal field. The conceptual model shall also address the connection between Alalobeda and the other Tendaho geothermal sites. The Consultant will make a volumetric assessment of the Alalobeda geothermal prospect and propose 4 drilling targets and corresponding well designs based on the conceptual model.

4.3. Capacity building

As a part of the contract the consulting firm shall provide training of government staff at the implementing agencies (geologists, chemists, geophysicists) in surface exploration. This involves participation of local scientists in field surveys and data processing and interpretation. This is done to increase the local capacity for geothermal studies. The participating local professionals will be designated by the implementing agencies and their salaries, allowances and expenses paid by the respective agencies.

4.4. Schedule of services

The commencement of the contract is tentatively scheduled for the first quarter of 2014 and the planned time for completion of services is twelve (12) months including the delivery of a final report.

5. Information required from interested firms or associations of firms

Interested firms must provide the following information, indicating they are qualified to perform the services.

a. Declaration of intent to associate (through joint venture or sub-consultancy), if applicable
b. Company profile(s) (including number of personnel in the relevant fields)
c. Company references in similar projects (at least three similar projects, involving geothermal surface exploration carried out over the last three years)
d. Description of access to relevant human resources (no CVs should be submitted at this EOI stage)
e. Financial statements for the last three years or more
f. Availability of equipment for microseismic survey
g. Any other information the firms deem necessary to demonstrate that they have the required qualifications and relevant experience to perform the Services

Qualification criteria

• Experience and track record of consulting firm in geothermal surface exploration studies
• Availability or access to experienced and qualified human and technical resources in geothermal exploration, including geophysics, geochemistry and geology
• Experience of geothermal exploration in Ethiopia and/or Africa

6. Contact information and due date

Additional information and clarifications may be requested from the following email address:

iceida@iceida.is

Responses to inquiries will be posted on http://www.iceida.is/english/partner-countries/regional-cooperation/procurement. Questions should not be submitted later than 16 October 2013.

Expressions of interest and the associated documentation in English must be delivered by 16.00 hours Icelandic time on 22 October 2013 to the Icelandic International Development Agency to the address below by mail, courier or email. Email delivery attachments should comprise preferably only one file but not more than four separate files in pdf-format.

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