REQUEST FOR PROPOSAL (RFP)

Service required: Provision of International Hydro Power Technical Expertise
Publication Date: October 12, 2020
Questions Due: October 12, 2020
RFP Deadline: October 29, 2020
Language of Notice: English
Assignment Countries: Home based with occasional trips to Kazakhstan and Tajikistan
Individual/Firm: Firm
Duration of the Agreement: ~ 38 days over a period of 10 months
Price Range: USD $30,000 – USD $40,000

I. Background

Tetra Tech ES, Inc. (Tetra Tech) is the prime contractor under the USAID funded “USAID Central Asia Power the Future Activity in Central Asia (PTF)”, Contract No. AID-176-I-17 00001/AID176-TO-17-00002. The PTF is committed to accelerating the transition of all five Central Asian countries to cost-effective, climate resilient economies. PTF project is seeking international hydro power technical expertise to provide technical assistance in implementation of PTF program activities related to hydro power development in Kazakhstan and Tajikistan.

II. Objective of the Request for Proposal (RFP)

Hydropower resources have a large potential in Kazakhstan and today account for about 10% of the country’s generating capacity. According to the 2030 National Concept of the Fuel and Energy Complex Development, Kazakhstan ranked the third among Commonwealth of Independent States (CIS) countries in hydropower resource potential and has an estimated potential of 170 billion kWh per year, of which about 62 billion kWh are technically feasible. The annual hydropower potential of medium and large rivers is 55 billion kWh, and 7.6 billion kWh from small rivers. About 8 billion kWh from small hydropower plants are estimated to be technically feasible. According to electricity balance of 2019, the total electricity generation was estimated at 106 billion kWh including from hydropower plants (HPPs) is only about 10 billion kWh.

Considering unexploited potential of hydropower resources and the need for flexible generation, the government is planning to develop a special hydro power development road map for Kazakhstan. The Ministry of Energy of Kazakhstan requested PTF to provide support in the development of such road map and implementation of its activities, including in relation to the development of hydro power resource map and hydro power projects potential assessment. PTF project is seeking international hydro power technical expertise to provide technical assistance to support the Ministry of Energy of Kazakhstan in its objectives.

Tajikistan has a substantial hydro-electric potential estimated at 527 billion kWh per year in total, and set a goal to increase the level of hydro-electric generation targeted on export. Government efforts are focusing primarily on completing the upgrading of the Nurek HPP (3,000 MW) and Rogun HPP (3,600 MW) both on the Vakhsh river, as well as on construction of a high voltage export transmission line to Pakistan though Afghanistan.

Ministry of Energy and Water Resources of Tajikistan requested PTF to support prefeasibility study to determine if some of the Ministry’s portfolio of potential hydro-
electric projects are sufficiently attractive to justify a full feasibility study. The study will be used by the Ministry to attract potential investors and partners, whether through loan finance from IFI’s or from private commercial investors, or a combination of both.

III. Scope of Work

The following activities/deliverables are expected to be implemented over the duration of the contract.

1. Assessment of available technical, operational, financial and environmental information related to hydro power potential in Kazakhstan;
2. Report on hydro power training needs in Kazakhstan;
3. Assessment of available river gages flow and historical river flow data, rainfall data as well as data on small rivers in Kazakhstan for accurately determining hydroelectric power potential in the country;
4. Provision of specific expertise related to the hydro power resource and road map when requested;
5. Assessment of available technical, operational, financial and environmental information related to hydro power potential in Tajikistan;
6. Development of the scope for local consulting company in Tajikistan to support prefeasibility study;
7. Select potential sites from list provided for prefeasibility study;
8. Provide list of data needed from locals sources including rainfall, stream and river historical, topography and geology for off-site study;
9. Estimation of site hydrology data on river basin;
10. Evaluation of topographic and geologic data (if necessary, from satellite imagery);
11. Gathering of technical data on any existing electricity transmission network in the area;
12. Scheme identification and estimate of average energy production;
13. Costs estimation;
14. Assessment of projects’ feasibility;
15. Implementation plan;

IV. Payment Schedule: Monthly, based on the monthly reports of services provided and acceptance by the PTF Chief of Party.

VI. Submission Requirements:

For this request, the interested parties should submit a proposal highlighting technical and professional expertise and experience in hydro power sector. The proposal must at minimum include the following:

Company Profile - provide information on core business and years in business as it relates to the technical services required under this RFP

Capability – Demonstrate extensive expertise in hydro power engineering with an experience in design, construction and operation of hydro power plants and good knowledge of hydro energy economics and experience in Central Asia. The team to perform the work must include the certified professional engineer with at least 15 years of professional technical experience in hydro power potential
assessments, strategy and policy development; design, operation and maintenance of hydro power projects, etc.

Interested companies are invited to submit a proposal along with a daily fee for the service.

Proposals should be limited to 5 pages and submitted to the following email address ptfcarembids@tetratech.com no later than October 29, 2020, at 17:00 EST. Questions may be submitted to the same address by October 21, 2020.

VI. Evaluation Criteria:
Award will be made to the bidder representing the best value in consideration of past performance, qualifications and price factors. Bidders are encouraged to provide a discount to their standard commercial rates.

The submitted technical information will be scored by an evaluation committee using the following technical criteria (45 points) and proposed cost (55 points).

Given the specific expertise required to perform the services in question only bids with a technical score of 35 points or more will be considered for evaluation of their cost proposals.

Proposals will be scored on a 100 point scale. Available points for each evaluation factor are given below.

Technical Proposal (45 points)

<table>
<thead>
<tr>
<th>Evaluation Criteria for Technical Proposal</th>
<th>Points</th>
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</thead>
<tbody>
<tr>
<td>I. Technical Capability</td>
<td>25</td>
</tr>
<tr>
<td>II. Company Proposed Staff</td>
<td>10</td>
</tr>
<tr>
<td>III. Company Past Experience</td>
<td>10</td>
</tr>
<tr>
<td>TOTAL</td>
<td>45</td>
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</tbody>
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Price Proposal (55 points)
The lowest priced financial proposal will receive the maximum score of 55 points. The other proposals will be scored inversely proportional to their price and computed as follows:

\[ S_f = 55 \times \frac{F_m}{F} \]

\[ S_f = \text{Financial Score of the proposal evaluated} \]

\[ F_m = \text{the price of the lowest priced Financial Proposal among those qualified} \]

\[ F = \text{the price of the Financial Proposal under consideration} \]

Tetra Tech ES, Inc. reserves the right to conduct discussions with selected bidder(s) in order to identify the best value offer. Award of any resulting Subcontract Agreement shall be made by Tetra Tech ES, Inc. on a best value basis, with evaluation of proposed price as well as proposed services and implementation.