

Request for Qualifications

Beaver Park Dam Construction Management Request for Qualifications

General:

The Colorado Parks and Wildlife (CPW) is requesting a Statement of Qualifications from qualified Engineering firms to provide Construction Management, Material Testing, Design Review, and Constructability Review for the construction of the Beaver Park Dam rehabilitation, Phase 2 project.

Beaver Park Dam is a large, high hazard dam located near South Fork, Colorado owned and operated by CPW. In the spring of 2010, a sinkhole was observed on the downstream left abutment of the dam, near a location of prior seepage concerns. An assessment of Beaver Park Dam began in 2010, after the Colorado State Engineer's Office (SEO) imposed a restriction on the reservoir.

CPW retained the services of AECOM, Inc. (AECOM) to develop construction plans and specifications for the Beaver Park Dam rehabilitation project. The design effort commenced in the summer of 2012, and CPW is now ready to select an engineering consultant for the construction management for the Phase 2 project. The dam is located southeast of South Fork, CO, at 8800-ft in elevation and year round construction is not anticipated. The Phase II work will include construction of a sand filter, rehabilitation of the outlet pipe and valve work and minor work at a landslide downstream of the embankment.

Scope of Work

Beaver Park Dam construction will require a full time resident engineer; meeting the State of Colorado requirements and the anticipated tasks for this project include the following tasks:

- 1. Project Management** – The Consultant shall designate a Project Manager/ Resident Engineer for this project, who is a Professional Engineer registered and licensed in Colorado in accordance with section 12-25-101, CRS. In addition, the project manager and all task leaders shall meet the qualifications of Section 4.2.9, of the State of Colorado, Division of Water Resources, Rules and Regulations for Dam Safety and Construction, Dated January 1, 2007. If the consultant needs to/ or wants to for their convenience, replace the Project Manager or any of the Task Managers, they must submit in writing to the CPW requesting this change. The consultant shall include the resume of the replacement (s), and they shall be equal to or more qualified than the person they are replacing. The Resident Engineer/ Project Manager will work with CPW and AECOM to manage the construction process.
- 2. Construction Management** – Provide day to day construction management including; construction observation, , point of contact with the contractor, monitor construction progress, construction schedule, contractor pay requests, reviewing requests for information (RFI), review and process shop drawings and change orders, keeping track of as-constructed plans and any field changes. This task includes completion of the necessary requirements in Rule 9, and Construction Completion Documents in rule 10, State of Colorado, Department of Natural Resources, Division of Water Resources, Office of the State Engineer, Dam Safety Branch, Rules and Regulations for Dam Safety and Dam Construction (SEO).

3. **Material Testing** – Complete control of the material testing program to make sure that it is compliance with the SEO, and CPW criteria. Testing could involve; testing of field and shop welds, laboratory and field geotechnical testing per specification, concrete field and laboratory testing per specification, grout field and laboratory etc. All testing personnel shall provide evidence of experience and certifications in the test they are to perform, and the Consultant shall provide documentation that the testing laboratory meets ASTM or AASHTO standards.
4. **Construction Observation** – Day to day construction observation to make sure that the items are being constructed within the intent of the construction documents and that all activities are being adequately documented. Includes scheduling construction review by the engineer of record at key construction milestones. Several specialty inspectors/ engineers will be required for the mass earthwork, mechanical/ electrical for the valves.
5. **Constructability Review** – The consultant shall provide a team to review the construction documents for any errors or omissions that may impact the construction. In addition, to review the documents for overall constructability and cost effectiveness.
6. **Design Review** - The consultant shall provide a constructability review on the 100% construction documents and provide comments based on the design. This review is for the completeness of the design only, not why a design element was selected.
7. **Partnering** – Attend and participate in Construction Partnering Meetings between the Owner, Contractor, and SEO for the project. This would include initial partnering meetings, championing the partnering process throughout the project and work with all parties to keep the project on track and to minimize potential conflicts that might arise.
8. **Augment Staff** – CPW Construction Engineers shall augment the consultant's staff, including; compiling pay requests, concrete inspections, rebar inspections, all CPW required reporting. It is anticipated that CPW construction engineer would be available 20-hrs per week.

Consultant Responsibility

Information supplied (by CPW – see below) shall be used by the Consultant to manage the construction for the project. The Consultant shall provide CPW with monthly the process reports during the duration of the construction.

CPW Responsibility

CPW shall provide the Phase II plans and/or all inspection records, reports, alternative analysis, and any bid information completed to date. CPW will perform all bidding activities for the project.

Attachments to this Request for Qualifications:

1. 60% Phase II Plans
2. 60% Phase II Design Report

Selection Criteria

The Consultant's response shall contain the following:

1. The specific personnel who will be assigned to the projects and their resumes. Include Subconsultants that will be part of the design team. Please note that only those individuals designated will be acceptable to the CPW for work under the Contract if your firm is selected.

2. A list of projects demonstrating that the firm has experience in dam construction management in a similar environment. The projects submitted shall be as closely related to the indicated project as possible.
3. Describe the procedure by which the construction management will be completed by your firm. The procedure should be detailed and include components such as Client Interaction, Cost Control, Quality Control, Working with the Design Consultant, Working with the State Engineer's office, Material Testing, working with the Contractor, as well as construction scheduling.
4. Qualifications for the key elements in the scope of work. Please address prior experience of both the firm and key staff regarding the key elements of the work anticipated for this project.
5. Quality of Subconsultants – the experience of the Subconsultants, prior working experience with the subconsultant on your team, and the qualifications of the Subconsultants, tasks that they are proposed to perform. The Subconsultant's key personnel shall meet the minimum qualifications per the Project Management Section above for the work that they will do. In addition, and change in Subconsultant or Subconsultant key personnel shall be approved in writing via the same method as the Prime Consultant as outlined in the Project Management section.
6. The format of the RFQ shall follow the requirements below, and these general requirements, 1" margins both sides, reasonable top and bottom margins, font size shall be 11 pt or higher.
 - a. Cover Letter – 2 pages
 - b. Project Team, including organization chart -6 pages
 - c. Project approach based on scope of work – 12 pages
 - d. Project / Constructability review – 2 pages

Appendices

1. Resumes – 2 pages in length for all key members of the project team
2. Projects – limit 10 projects – 2 pages in length each
3. Firm Information – any information that the Consultant deems useful in determining the best qualified firm – 2 pages – however, it shall not contain any additional information that is listed above.

The Statement of Qualifications will be evaluated for experience of the firm in similar projects, qualifications of the personnel assigned to the project, and the procedure for completing the projects, quality control/ quality assurance and the responsiveness to this RFQ. The consultant shall submit five copies of the Statement of Qualifications as specified below.

Insurance

The Consultant will be required to provide professional liability or error and omissions insurance as specified in the Draft Contract attached to this document and general liability of \$1,000,000 minimum, automobile insurance of \$1,000,000, and Workers Compensation Insurance.

Site Visits

CPW will hold an informational meeting on August 13, 2013 at 2:00 pm at in the Big Horn Conference Room, 6060 Broadway, Denver, CO.

Contact

For additional information contact John P. Clark (Dam Operations Manager) at john.clark@state.co.us

Statement of Qualifications

The Statement of Qualifications shall be submitted no later than 5:00 p.m., August 23, 2013 to:

John P. Clark, P.E.
Dam Operations Manager
Colorado Parks and Wildlife
6060 N. Broadway
Denver, CO 80216