



THE CITY OF SAN DIEGO

Publication Date: August 3, 2007
Requesting Department: Purchasing and Contracting Department
Contracting Division
1200 Third Avenue, Suite 200
San Diego, CA 92101
(619) 236-6000

REQUEST FOR PROPOSALS

FOR

ENGINEERING SERVICES 2008-2011

The City of San Diego (City) is requesting proposals from highly qualified consultants for Engineering Services 2008-2011.

It is the policy of the City to provide equal opportunity in its professional services contracts. Toward this end, proposals from small businesses, disabled owned businesses, women owned businesses, firms owned by African-Americans, American Indians, Asian- Americans, Filipinos, and Latinos, and local firms are strongly encouraged. Prime consultants are encouraged to sub consult or joint venture with these firms. The City endeavors to do business with firms sharing the City's commitment to equal opportunity and will not do business with any firm that discriminates on the basis of race, religion, color, ancestry, age, gender, sexual orientation, disability, medical condition or place of birth. This project has a voluntary Subcontracting Participation Level (SPL) goal of 15%. SPL goals are achieved by contracting with any combination of Minority Business Enterprises (MBE), Women Business Enterprises (WBE), Disadvantaged Business Enterprises (DBE), Disabled Veterans Business Enterprises (DVBE) or Other Business Enterprises (OBE) at the prime or subcontractor level. Definitions of MBE, WBE, DBE, DVBE and OBE are contained in the Request for Proposals (RFP). Attainment of the SPL goal is strongly encouraged, but strictly voluntary.

The City of San Diego will ensure that full access to programs, services, meetings and activities comply with Section 504, Title V, of the Rehabilitation Act and Americans with Disabilities Act (ADA) 1990, Public Law 101-336.

In-depth knowledge and a strong understanding of the local environment, and a local presence for interfacing with City's project management staff are essential to the successful completion of this project. The proposal must address the consultant's knowledge and understanding of: the City and other local agencies regulations and policies; local environment; geotechnical conditions in project area; and local building codes and other design criteria. The proposal must also address how the consultant plans to interface with the City's project management staff and the consultant's workforce in San Diego County.

All proposals submitted must be in full accord with the Request for Proposals (RFP) which can be obtained by requesting directly at the following address, or by requesting it by email from John Mendivil, Consultant Services Coordinator, at jmendivil@sandiego.gov:

City of San Diego, Purchasing & Contracting Department
Attn: John Mendivil, Contracting Division
1200 Third Avenue, Suite 200
San Diego, CA 92101

or by calling (619) 235-5855. When requesting the RFP, please refer to the specific project title listed above.

A preproposal conference will be held on August 23, at 10:00 a.m. at 9192 Topaz Way, Conference Room 1D, San Diego, CA 92123. It is strongly recommended that all interested parties attend. For more information, assistance, to request an agenda in alternative format, or to request a sign language or oral interpreter for the meeting, please contact Amer Barhoumi, at (858) 292-6421 at least five working days prior to the meeting to ensure availability.

Proposals are due no later than **2:30 p.m.**, September 14, 2007, at the location stated in the RFP. This RFP does not commit the City to award a contract or to defray any costs incurred in the preparation of a proposal pursuant to this RFP. The City reserves the right to accept or reject any or all proposals received as a result of this RFP. The City also reserves the right to revise this RFP, including but not limited to the preproposal conference date and the proposal due date. If the City revises the RFP, all RFP holders of record will be notified in writing by the City.

Summary of Scope of Services

The City has a need for professional engineering consultant services on as needed basis to support the existing and future wastewater facilities.

Due to the ongoing program development, identifying specific tasks for the consultant to perform will also be ongoing. As specific requirements are established, the consultant will be authorized in writing by the City to perform said requirement via "Task Orders".

Requirements

As a minimum, the consultant must be able to perform work in the anticipated areas delineated below. These areas are not exclusive and additional areas may/will be identified in the future.

1. Soil and Geotechnical Engineering:
 - Prepare soil investigation reports
 - Estimate construction dewatering rate
 - Conduct soil boring, well sampling and data analysis
2. Traffic Engineering:
 - Develop construction zone traffic control plans to ensure safe movement of motorists and pedestrians through or around construction work areas

3. Sanitary Engineering:
 - Design water and sewer systems
 - Perform specific hydraulic analysis
 - Provide minor value engineering services as a third party review of proposed wastewater project/process with above average complexity
4. Survey Engineering:
 - Provide general survey, boundary and topographic survey services
 - Provide aerial photogrammetry services
5. Civil Engineering:
 - Perform grading , drainage, analysis and design
 - Perform structural analysis and design
 - Perform road alignment analysis and road design
 - Provide cost estimates and economic analysis
 - Provide consulting engineering services for miscellaneous projects
6. Electrical Engineering:
 - Perform electrical analysis and evaluations
 - Provide cost estimates
 - Miscellaneous projects
7. Mechanical Engineering:
 - Perform mechanical engineering evaluation and cost estimates
8. “Fair Cost” Estimates
 - Prepare fair cost estimates for both design and construction phases of wastewater treatment plants, pump station and pipelines
9. Architectural Engineering:
 - Perform architectural design services
 - Provide cost estimates
10. Instrumentation and Controls Engineering:
 - Experience in analog instrumentation-application, selection of process interface, specifications, control loop definition, ISA data sheets
 - Experience in design of PLC or DCS-based or SCADA control systems
 - Experience in developing the following:
 1. Interconnection and loop diagrams
 2. Process and instrumentation diagrams (P&IDs)
 3. Motor control schematics
 4. SAMA logic diagrams
 5. Ladder logic

6. Control panel layouts and schedules
 7. Input/output points lists
 8. Electrical cable and conduit plans for instrumentation wiring
- Experience in doing field investigations for existing facilities, including documenting existing I&C systems with the above drawings
 - Experience writing control strategies
 - Communications system design experience
 1. Local Area Network communications writing plans and specifications 10BaseT, 100BaseT, single and multi mode fiber optic
 2. Wide Area Network block diagrams-T1, fiber optic, spread-spectrum radio
 - Design Experience in the following:
 1. Control rooms-power, HVAC, lighting, etc.
 2. Closed circuit television (CCTV) Monitoring System
 3. Security card access system design
 4. Fire alarm and protection systems design
 5. Page party communication system design
 6. Load management system design
 7. Load shedding control strategies for implementation in DCS software
 8. Automatic restart sequence after power failure for implementation in DVC software
11. Experience in Secondary Treatment process and Pilot Study design and implementation.

