

WASTE TREATMENT PLANT PROJECT REQUEST FOR INTEREST

CONCRETE AND EARTHWORK MATERIAL TESTING SERVICES

Requisition Number: 24590-CM-SRA-SY01-00001
Submit Interest By: May 25, 2020
Quality Level: CM
Award Type: TBD

ESTIMATED SCHEDULE

Issue Request for Proposal: June 1, 2020
Award and Notice to Proceed: TBD

PROJECT DESCRIPTION AND LOCATION

The Hanford Tank Waste Treatment and Immobilization Plant (WTP) is a complex of radioactive waste treatment processing facilities designed and constructed by Bechtel National, Inc. for the Department of Energy (DOE). The facility will process the Hanford Site tank waste and convert the waste into a stable glass form.

The Project site is located in the 200 East Area of the Hanford Reservation near Richland, Washington, along the Columbia River. The site elevation varies from 662 to 684 feet above mean sea level. Ambient temperature range is -23 degrees F minimum to 113 degrees F maximum, with relative humidity of 5% minimum to 100% maximum. The project design life is 40 years.

SCOPE OF WORK

SUBCONTRACTOR shall provide material testing services for soil and concrete products at the WTP. SUBCONTRACTOR shall provide all necessary qualified personnel, tools, equipment, materials, vehicles, and supplies required to provide the required material testing services in the field and at SUBCONTRACTOR test facility. SUBCONTRACTOR shall perform sampling, testing, and reporting and documenting of test results and observations as required by Subcontract.

WORK LOCATION

Work shall be completed in a SUBCONTRACTOR supplied material testing laboratory unless the specific activity requires performance of sampling or measurement in the field on the WTP construction site. SUBCONTRACTOR shall comply with Project Security Program requirements for access to the WTP construction site (and WTP offices, if necessary). SUBCONTRACTOR shall obtain project badges or maintain existing project badges if applicable. Any requested access shall be coordinated through CONTRACTOR.

ENGINEERING

SUBCONTRACTOR shall provide Engineering in two (2) steps:

- 1) Preliminary engineering and scope definition
- 2) Detailed engineering design and specification technical package for Construction

Preliminary Engineering and scope definition

- 1) SUBCONTRACTOR shall provide sample test reports for each specific testing procedure.
- 2) SUBCONTRACTOR shall provide Inspection Procedures for all Specific Test Methods.

Detailed Engineering Package for Construction

- 1) Concrete Testing:
 - a. Aggregates
 - b. Fresh Concretes
 - c. Cylinder Breaks (Laboratory and Field Cure)
 - d. Hardened Concrete
 - e. Concrete Pour Truck Log
- 2) Grout Testing:
 - a. Non-Shrink Grout
 - b. Epoxy Grout
- 3) Earthwork/Backfill Testing:
 - a. Controlled Density Fill (CDF)
 - b. Field Density and Moisture
 - c. Particle Size Analysis and Moisture Density Relations
 - d. Sand Cone / Rubber Balloon
 - e. Field Gradation
- 4) Asphalt Pavement Testing:
 - a. Nuclear Densometer (or Electric Densometer) testing of Asphalt Paving
 - b. Correlation between Nuclear Densometer Testing (by SUBCONTRACTOR) and Electric Densometer Testing (by others) (if required).
 - c. Rice Density testing of Asphalt Paving
 - d. Binder extraction and binder testing of Asphalt Paving

RELATED WORK

All SUBCONTRACTOR personnel shall attend a CONTRACTOR provided site orientation training session prior to performing work on-site; SUBCONTRACTOR shall coordinate site orientation training with CONTRACTOR.

SUBCONTRACTOR shall provide and document OSHA required training (e.g. fall protection) for all SUBCONTRACTOR personnel.

SUBCONTRACTOR shall be the custodian for and maintain certification of a CONTRACTOR provided nuclear densometer.

SUBCONTRACTOR shall be responsible for collecting, sampling, transporting, and testing of materials from on-site sources.

At CONTRACTOR's request, SUBCONTRACTOR shall be responsible for collecting, sampling, transporting, and testing of materials from off-site sources, such as aggregates from quarries, fly ash, and cement.

SUBCONTRACTOR shall be responsible for providing and maintaining any provided temporary office locations for all SUBCONTRACTOR personnel on-site.

WORK EXCLUDED

CONTRACTOR shall be responsible for inspecting of the following: formwork, reinforcing steel, and embedded item installation for concrete placements.

CONTRACTOR shall be responsible for establishing and inspecting line and grade for site preparation and earthwork.

CONTRACTOR shall provide nuclear densometer.

TECHNICAL REQUIREMENTS

SUBCONTRACTOR shall perform all testing and sampling in accordance with the specific technical requirements in the Subcontract.

TECHNICAL CAPABILITY

SUBCONTRACTOR shall provide and maintain all certifications and registrations for laboratory facilities and personnel to perform this scope of work as required by the State of Washington.

SUBCONTRACTOR staff shall include a Registered Professional Engineer (PE) in the State of Washington; the Engineer shall be of the Civil discipline, in active status, and in good standing.

SUBCONTRACTOR shall meet all Subcontract requirements and shall meet recognized industry standards of quality for professional work of a similar nature.

TECHNICAL PERFORMANCE REQUIREMENTS

SUBCONTRACTOR shall maintain a properly calibrated nuclear densometer with the ability to test to a depth of 12".

SUBCONTRACTOR shall provide preliminary test results for concrete and grout breaks to CONTRACTOR using a searchable Microsoft Access Database (provided by CONTRACTOR) and shall update the database daily to provide CONTRACTOR access to break information while final test reports are being processed.

SUBCONTRACTOR shall provide daily a list of all tests performed (on and off-site), including the location of tests, type of tests, and testing personnel names.

SUBCONTRACTOR shall provide test reports as required by the Subcontract Specifications.

SUBCONTRACTOR shall provide final test reports, with PE seal, as required by the Subcontract Specifications.

QUALITY ASSURANCE (QA) REQUIREMENTS

Programmatic Quality Assurance (QA) requirements for subcontracts or purchase orders performed in the WTP Jobsite will be:

<input type="checkbox"/>	Non-Permanent or Temporary Work - Generally no QA program required
<input checked="" type="checkbox"/>	Commercial Quality - Based on DOE Order 414.1C
<input type="checkbox"/>	Nuclear Level Quality - Based on ASME NQA-1 2000

Bechtel may require, as an element of bidder pre-qualification, submission of a representative sample QA Program or Table of Contents copy. For Nuclear Level Quality subcontracts, the successful bidder's QA Program must be approved prior to award of the subcontract or purchase order.

CODES AND STANDARDS

SUBCONTRACTOR shall provide and maintain a complete set of the applicable Codes and Standards used for testing.

BIDDER REGISTRATION AND PRE-QUALIFICATION

The BNI Acquisition Services Subcontracts/Purchasing group is responsible for collection, evaluation, and internal publication of potential bidders' information for the purpose of pre-qualifying them to bid on any particular subcontract or purchase order.

As part of this process, BNI requires all potential offerors to register at the Supplier and Contractor Portal at: <https://www.Bechtel.com/supplier/>

If your company has registered previously, then only supplemental information should be sent to the Bechtel National, Inc. representative noted below.

Information to be provided by potential bidders must include:

- Dun and Bradstreet Number
- Company Name
- Company Address
- Contact Phone Number
- Contact Person
- Email Address
- Safety Data and Information
- Applicable Work Experience and Projects
- Size of Business (Small, Large)

WTP BACKGROUND

Information about the WTP Project can be found on <http://www.hanfordvitplant.com>

CONTACT

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