US Department of Agriculture (USDA)

BLACK HILLS NATIOANAL FOREST

HELL CANYON RANGER DISTRICT

TEPEE WORK CENTER WELL PUMP REPLACEMENT

STATEMENT OF WORK

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Project

Insert Project Title Here

General Information

1.0 Scope of Work

This project includes the replacement of a deep-well pump system for a 921-foot well, including the installation of a 5 HP submersible pump and associated controls. The contractor shall provide all labor, materials, equipment, testing, and documentation necessary to restore the well to proper working condition.

2.0 Background

The existing pump system for the 921-foot well has exhibited signs of failure, diagnostic evaluation leads to the well pump has seized. Historical data for this site details how the previous well pump had been seized due to rust. The system utilizes a deep-well submersible pump, originally installed to support agricultural or facility water supply operations. This SOW outlines the requirements for assessment, repair, replacement, testing, and commissioning of a new 5 HP submersible pump system and associated surface controls.

Contractor Requirements

3.0 Technical Requirements / Tasks

The contractor shall perform the following tasks:
- Pull existing pump assembly and inspect drop pipe, cabling, and check valves.
- Provide and install a new 5 HP deep-well submersible pump suitable for installation at 820-880 feet depth based on water levels.
- Install submersible pump cable (approx. 900-950 feet), torque arrestors, centralizers, and stainless-steel check valves.
- Provide new pump control system, including overload protection, surge protection, and pressure switch or optional VFD control.
- Disinfect well per standards, flush system, and perform bacteriological testing.
- Conduct performance testing to verify required flow and pressure.
- Provide as-built documentation, test results, and warranty information.

4.0 Government Furnished

The government will provide access to the well site, historical well logs (if available), and any required operational data. No government-furnished equipment is anticipated. Government personnel will review and approve all provided reports and submittals.

5.0 Deliverables / Schedule

Example 1

Key Deliverables

Item No.	*Deliverable*	*Objective*	*Due*
1	Pump removal findings Initial condition assessment and inspection report	Identify reasons for pump failure.	First contract action item
2	Submittals for pump, motor, and controls.	FS verification of equipment, materials and installation certification credentials.	Prior to performing installation of equipment
3	Disinfection and bacteriological test results	Verification water is fit for consumption.	Prior to opening water valves to dwellings.
4	Final installation report and system performance test	Verification of working system and operation instruction.	Prior to final acceptance and demobilization
5	As-built drawings and warranty documentation	Provide future reference and warranty information	Within 10 days of final acceptance

6.0 Travel

Travel to the well site is required for assessment, pump removal, installation, and testing. All travel costs shall be included in the contractor's quote. No separate reimbursement will be provided.

7.0 Contractor's Key Personnel

Key personnel shall include a licensed pump installer, qualified electrician, and well technician experienced with deep-well installations exceeding 800 feet. Resumes shall demonstrate relevant experience and certifications.

8.0 Security Requirements

No security clearance is required. Contractor personnel shall check in with site representatives upon arrival and comply with all USDA site access requirements.

9.0 Data Rights

All data, reports, test results, and documentation generated under this contract become the property of the U.S. Government.

10.0 Section 508 – Electronic and Information Technology Standards

All electronic deliverables shall be Section 508 compliant, including readable PDFs and accessible text formats.