Invitation to Bid (ITB)
ITB # VSW-TNK-2019-23

Department of Environmental Conservation
Village Safe Water Program

Addendum Two

Construction of 6-Inch Diameter
Water Supply Well, Tununak, Alaska

Date of Issue: February 21, 2019

The ITB Package is hereby clarified or changed as follows:

1. Submittal deadline is not changed

2. Remove and Replace

3. Attachments

The Remove and Replace and Attachments Sections begin on page 2. This Addendum is hereby made part of the ITB and is a total of 2 pages (not including attachments).

All other terms and conditions for this ITB remain unchanged.

Issued by: Christine Mash
Procurement Officer
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2. Remove and Replace

Reference Section 5, Technical Specifications, Pages 5-6 and 5-7, remove and replace with Attachment 1.

3. Attachments

1. Section 5, Technical Specifications, Pages 5-6 and 5-7. (Two Pages)

Bidders must acknowledge receipt of this Addendum on Section 4, Bid Form, prior to the hour and date set for bid opening.

The bid documents require acknowledgment individually of all addenda to the drawings and/or specifications. This is a **mandatory requirement** and any bid received without acknowledgment of receipt of addenda may be classified as not being a responsive bid.

End of Addendum

1.4.7 Record of Plumbness and Alignment (described in Section 3.3.2)

1.4.8 Final Report (described in Section 3.3.2)

PART 2 – PRODUCTS

2.1 MATERIALS

2.1.1

Material used in the drilling process or well construction shall meet these requirements.

- All material used in the construction of the well shall be free of contaminants.
- All chemicals, substances and materials added to or brought in contact with water in a public water system well shall have either standard ANSI/NSF 60 or 61 certification.
- All drill mud, additives, and lubricants shall have either standard ANSI/NSF 60 or 61 certification. Drilling fluid or additives that contain biodegradable organic material, shall not be used during the drilling of a well.
- Potable water shall be used for drilling purposes. If necessary, the potable water shall be treated for drilling purposes in accordance with the drilling mud manufacturer recommendations. Potable water is available from the OWNER with the understanding the CONTRACTOR will be responsible for delivery of the water.

2.1.2

Well Casing shall meet the following requirements.

- The well casing used as a permanent part of the well structure shall be all new, seamless or electric resistance welded steel pipe conforming to ASTM-A53, Grade B, black wall. Casing shall be free of oil, grease or other contaminants;
- Shall be greater than minimum wall thickness and weight when required either to withstand the stresses of installation, grouting and operation, or corrosion;
- Shall be legibly marked on each length, by manufacturer, with all the following information:

  i. Name of the manufacturer;
  ii. Kind of pipe (continuous welded, electric resistance welded or seamless);
  iii. Weight or schedule;
  iv. Nominal or outside diameter;

v. Specification number;
vi. Heat or lot number;

- Shall be structurally sound and watertight throughout its length and shall have threaded and coupled or welded joints.

2.1.3 Drive Shoes

If permanent steel casing is to be installed by driving methods, the use of a manufactured drive shoe is required. The type and weight of the drive shoe shall be determined by the CONTRACTOR and specified in the initial materials submitted for approval. The shoe selected must be appropriate for exposing the screen by the pull-back method.

2.1.4 Well Screen

- The well screen shall be wire-wound, continuous slot. Screens shall be fabricated by circumferentially wrapping a triangular-shaped wire around a circular array of equally spaced internal rods. Each juncture between the horizontal wire and the vertical rods shall be fusion welded under water for maximum collapse strength. The wire shape must produce inlet slots with sharp outer edges, widening inwardly to minimize clogging. Screen end fittings shall be securely welded to each section.

- The well screen and its fittings shall be fabricated of the same material. This material shall be type 304 stainless steel unless otherwise specified. A manufacturer's certification of materials shall be provided to the purchaser.

- The well screen shall provide sufficient column and collapse strength to withstand installation and borehole pressures.

- Screen joints between screen sections and blank casing shall be welded or threaded and coupled.

- Packers shall be constructed of rubber or neoprene seal material and shall be subject to approval by the Engineer.

- Screen shall be provided with a bail bottom or bottom plate fitting and a riser pipe.

- Where filter pack or formation stabilizer is installed, the screen shall have centralizers outside the top and bottom of the screen to ensure an even filter pack.