

**Invitation to Bid**  
**RTK GNSS SURVEY EQUIPMENT**

The Town of Goffstown, on behalf of its Department of Public Works invites bids for a survey quality Real Time Kinetics (RTK) Global Navigation Satellite System (GNSS). The product identified in the bid shall meet the technical specifications, terms and conditions in the bid documents. Bid documents are available from the Goffstown Department of Public Works, 404 Elm St., Goffstown, NH; phone: 603-497-3617.

All bids must be submitted in a **sealed envelope clearly marked:**

"SEALED BID-RTK GNSS SURVEY SYSTEM FOR GOFFSTOWN DPW"

and shall be submitted to:

Town of Goffstown  
Town Hall Office  
16 Main Street  
Goffstown, NH 03045

If the bid is mailed, the outer envelope shall be clearly marked, "BID ENCLOSED".

All bids must be received no later than Thursday, September 16, 2010 at 2:00 P.M. at which time they will be opened and publicly read.

The Town of Goffstown reserves the right to select the bid that it determines is in the best interest of the Town. The Town may waive any informalities or minor defects or reject any or all bids.

The Town of Goffstown, NH is requesting a price to purchase a Global Navigation Survey System (GNSS) to be used by its Department of Public Works. General information and specifications are as follow.

**GENERAL INFORMATION:**

The Department of Public Works wishes to purchase a survey caliber GNSS as further specified herein. The equipment to be purchased will be used for base plan survey to design highway, drain, bridge, sewer and similar public works construction projects. It will also be used to locate as-built features to further develop the Town’s GIS and for construction stakeout. The equipment shall be capable of performing those functions in Real Time Kinetics (RTK) at the precisions described herein without further processing. The data collector and software must be exportable for use with the Department’s AutoCAD Land Desktop format for use with the Town’s CAD and GIS systems.

Bid responses must factor in all hardware including , but not limited to, GNSS receiver(s), antenna(e), data collector, tripod for base station use, pole for rover use and any peripherals. Additionally all software necessary for data collection as well as data transfer to the Department’s CAD and GIS systems must be included. Bidders shall include with their bids brochures, technical specification sheets and/or other supporting data sufficient in detail to show that the offered equipment meets the Town’s specifications.

The successful bidder must deliver, set up and demonstrate the equipment to ensure that the system is completely operational. Adequate, on-site training for at least two Department employees shall be included in the base bid price. A price for optional additional training shall also be included separately.

The bidder shall include a “trade-in” credit for the Town’s existing Trimble 4700 GPS Survey equipment. Major items include, two (2) Trimble 4700 receivers, two (2) antennae, one (1) TSC-1 data collector, two (2) tripods, one (1) rover pole, and miscellaneous uhf radios, backpack, batteries and charger. Bidders may inspect the equipment during normal business hours by appointment with the Goffstown DPW, phone: 603-497-3617.

**SPECIFICATIONS:**

**A. Positioning Accuracy**

Static	H: 5mm+0.5ppm	V:6mm+0.5ppm
Fast Static	H:5mm+0.5ppm	V:10mm+0.5ppm
Kinematic &RTK	H:10mm+1ppm	V:20mm+1ppm

**B. Tracking Capability**

Channels	72 (minimum)	
Tracked Signals	GPS	All available L1, L2 and L2C
	GLONASS	All available L1 and L2
	OTHER	WAAS, EGNOS
	Additional desired capability for GPS L5	

**C. User Interface**

Display	LED display indicators
---------	------------------------

Status Indicators            At minimum – battery life, satellites tracked, static occupation time  
Audible Indicators        Notification of receiver status in English

**D. Environmental**

Dust and water protection    IP67-protected against dust and water (immersion to 1 meter)  
Shock                            Pole drop to 2 meters  
Operating Temperature       -40 to +65 degrees C

**E. System Components**

The system shall include all equipment necessary for field survey data acquisition and transfer to a Windows based PC. This shall include but not be limited to the following:

- Base station receiver with adjustable tripod
- Rover with adjustable rover pole
- All necessary mounting and support hardware
- Cables, batteries and battery chargers for all components as required
  - Batteries shall be replaceable and rechargeable
- Portable protective carrying case for system components
- Data collector with alpha-numeric keypad and touch screen operation

**F. Training**

- Minimum of one day of on-site training for a minimum of two DPW employees to include equipment set-up, operation and maintenance
- Two (2) sets of operators manuals to be included at the time of delivery
- Bid option for additional half-day (4-hour) on-site training, technical assistance

**G. Warranty**

Bidder must honor, at a minimum, the Manufacturer's Standard Warranty on items and/or parts purchased under this contract. If Bidder is able to offer warranty terms that exceed the Manufacturer's Standard Warranty, identify the difference below. Indicate warranty term and enclose standard warranty documents with your bid.

If this solicitation requires that specific products must perform as a system, the vendor warranty must apply to all products as a system. Nothing in this solicitation or this specific clause shall be construed to limit any right or remedies the Town of Goffstown, NH may otherwise have with respect to defects or other matters of non-performance.

**BID RESPONSE**

RTK GNSS Survey System as specified including delivery, training and warrantee \$ \_\_\_\_\_

Trade-in credit for Town's existing Trimble 4700 system \$(\_\_\_\_\_)

Total base bid for comparison (new equipment price less trade-in) \$ \_\_\_\_\_

Add option 1 – additional on-site training (four hour block) \$ \_\_\_\_\_

Add option 2 - Spare plug-in rechargeable batteries one for each unit as required \$ \_\_\_\_\_

Manufacturer and Model offered \_\_\_\_\_

Warranty/Guarantee Period \_\_\_\_\_

Bidder (Company name) \_\_\_\_\_

Bidder SSN/EIN \_\_\_\_\_

Address \_\_\_\_\_

Phone/Fax No. \_\_\_\_\_

Authorized Signature \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

Price will be valid for (90 days min.) \_\_\_\_\_

Bidders shall list below any deviations from the minimum specifications as stated above.

All items are to be FOB-destination – Goffstown DPW, 404 Elm Street, Goffstown, NH 03045.

Any questions regarding this request for bids may be directed to Carl Quiram, P.E., Director, Goffstown DPW at 603-497-3617.

## BID, RFP AND QUOTE TERMS AND CONDITIONS

**BID ACCEPTANCE AND REJECTION:** The Town of Goffstown reserves the right to accept any bid and to reject any and all bids; to award the bid to other than the low bidder if deemed “bid most advantageous to the Town”; to accept the bid on one or more items in the proposal on all items of a proposal or any combination of items of a proposal and to waive any defects in bids.

**LATE PROPOSALS/BIDS:** Any bids received after the specified date and time will not be considered, nor will late bids be opened.

**PAYMENT TERMS:** It is the custom of the Town of Goffstown to pay its bills within thirty (30) working days following delivery of, and receipt for, all items covered by the purchase order. In submitting bids under these specifications, bidders should take into account all discounts, both trade and time, allowed in accordance with the above payment policy.

**PROPER DOCUMENTATION:** Any respondent to a bid request should sign off and return to the Town the original Bid Documentation Package which explains the scope of the bid request. Said signature, in the spaces provided, indicates receipt of, familiarity with and understanding of, and acceptance of the specifications provided, except where specifically noted by the respondent.

**AWARD:** The Goffstown Department of Public Works will review bids based on price and fitness of the offered equipment for the Town’s intended purpose. The Town may also consider warranty terms, proximity of the vendor, availability of parts and service and discussions with other users of the proposed equipment regarding their satisfaction. To that end, bidders are encouraged to provide with their bids additional supporting information. Following its review of the bids, the DPW will forward its recommendation to the Board of Selectmen.