

State of West Virginia Request for Quotation 27 — Miscellaneous

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Doc Description: Addendum No.02 - Surveying Equipment - North

Proc Type: Central Purchase Order

 Date Issued
 Solicitation Closes
 Solicitation No
 Version

 2019-12-06
 2019-12-11
 CRFQ
 0313 DEP2000000018
 3

 13:30:00
 3

BID RECEIVING LOCATION

BID CLERK

DEPARTMENT OF ADMINISTRATION

PURCHASING DIVISION

2019 WASHINGTON ST E

CHARLESTON

WV

25305

RECEIVED

2019 DEC 10 PM 2: 53

W PURCHAL NG

VENDOR

US

Vendor Name, Address and Telephone Number:

C & B Blueprint, Inc.

824 6th St.

Huntington, WV 25701

(304) 525-2175

FOR INFORMATION CONTACT THE BUYER

Britteny E Ingraham (304) 558-2157

brittany.e.ingraham@wv.gov

Signature X

FEIN# 55-070-4854

DATE 12-9-19

All offers subject to all torps and conditions contained in this solicitation

Page: 1

FORM ID: WV-PRC-CRFQ-001

ADDITIONAL INFORMATION:

Addendum

Addendum No.02 issued to publish and distribute the attached information to the vendor community.

Request for Quotation

The West Virginia Purchasing Division is soliciting bids on behalf of West Virginia Department of Environmental Protection, Office of Special Reclamation, to establish a contract for the one-time purchase of surveying equipment and technical support per the bid requirements, specifications, terms and conditions attached to this solicitation.

INVOICE TO		SHIP TO	
ENVIRONMENTAL PR OFFICE OF SPECIAL I		ENVIRONMENTAL PROTECTION OFFICE OF SPECIAL RECLAN	
47 SCHOOL ST, STE 3	01	47 SCHOOL ST, STE 301	
PHILIPPI	WV26416	PHILIPPI	WV 26416-9998
us		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	GPS Base and Rover (Sokkia GRX3	1.00000	EA		
	or Equal) Stonex \$10A base/rox	er		\$16,500.00	\$16,500.00

Comm Code	Manufacturer	Specification	Model #	
20121909	Stonex		S10A	

Extended Description:

GPS Base and Rover (Sokkia GRX3 or Equal)

INVOICE TO		SHIP TO	
ENVIRONMENTAL PRO		ENVIRONMENTAL PRO	
47 SCHOOL ST, STE 30)1	47 SCHOOL ST, STE 30	01
PHILIPPI	WV26416	PHILIPPI	WV 26416-9998
us		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
2	Data Collector (Carlson Surveyor 2 or Equal)	1,00000	EA	\$3,425.00	\$3,425.00

Comm Code	Manufacturer	Specification	Model #	
20121909	Carlson	GPS only software	Surveyor 2	

Extended Description:

Data Collector (Carlson Surveyor 2 or Equal)

SOLICITATION NUMBER: CRFQ DEP2000000018 Addendum Number: No.02

The purpose of this addendum is to modify the solicitation identified as ("Solicitation") to reflect the change(s) identified and described below.

Appli	cab	le A	ddendum Category:
	[1	Modify bid opening date and time
	[1	Modify specifications of product or service being sought
	[•	/	Attachment of vendor questions and responses
	[ı	Attachment of pre-bid sign-in sheet
	[1	Correction of error
	[l	Other
	•		of Modification to Solicitation: ssued to publish and distribute the attached documentation to the vendor community.
1. T	he p	urpo	se of this addendum is to publish vendor questions and agency responses.
No	other	· cha	anges.
			ocumentation: Documentation related to this Addendum (if any) has been with as Attachment A and is specifically incorporated herein by reference.
Term	s an	d C	onditions:
1.			ovisions of the Solicitation and other addenda not modified herein shall remain in ree and effect.
2.	Ve	ndo	r should acknowledge receipt of all addenda issued for this Solicitation by

completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

ATTACHMENT A

Stonex S10A base/rover package includes:

- 2-Carrying cases
- 2-Antenna
- 4-Batteries
- 2-Chargers w/power cords
- 2-Multi link cables
- 1-Power/data cable
- 1-12V cable w/alligator clips
- 1-Tribrach
- 1-Tribrach adapter
- 1-Base mounting pole
- 1-Wood/fiberglass tripod
- 1-2 meter carbon fiber pole

Surveying Equipment CRFQ DEP200000018 Addendum #2 Vendor Questions and Agency Answers

- Q1. The bid asks for base and rover GRX3 but does not specify any (OAF files) optional authorization files the units come with basic functionality and these files are upgrades that can be purchased to unlock additional features for example L2 option, optional gps constellations, rtk radio, tilt option etc.
- A1. Yes, include all OAF signal files option.

ADDENDUM ACKNOWLEDGEMENT FORM SOLICITATION NO.: CRFQ DEP20*18

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

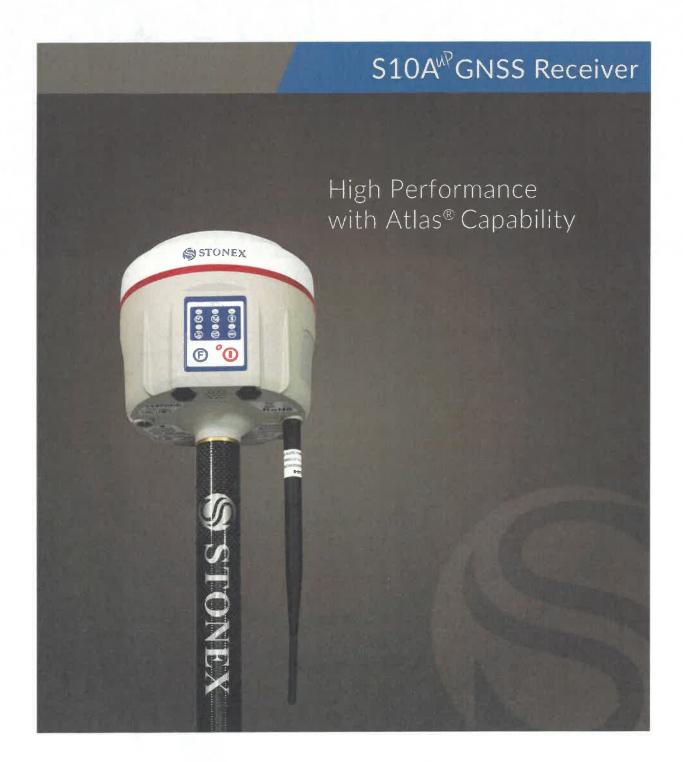
Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

	Numbers Received: box next to each addendum rece	ived	l)	
[V]	Addendum No. 1	[]	Addendum No. 6
[1	Addendum No. 2	[]	Addendum No. 7
[]	Addendum No. 3	[]	Addendum No. 8
[]	Addendum No. 4	[]	Addendum No. 9
[]	Addendum No. 5	[]	Addendum No. 10
further unde discussion h	rstand that any verbal representa eld between Vendor's represent	atio:	n ma	Idenda may be cause for rejection of this bid. I ade or assumed to be made during any oral and any state personnel is not binding. Only the ifications by an official addendum is binding.
			C 8	x B Blueprint, Inc.
				Company
		I	34	nny Copley
				Authorized Signature
			12-	6-19
				Date

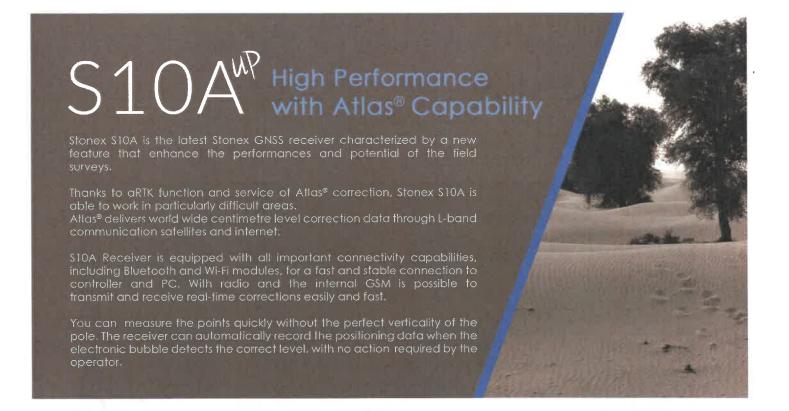
NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.

Revised 6/8/2012











MULTI CONSTELLATION

Stonex \$10A with its 600 channels, provides an excellent on board real time navigation solution with high accuracy. All GNSS signals (GPS, GLONASS, BEIDOU and GALILEO) are included, no additional cost.



WEB UI CONTROL

To initialize, manage, monitor the settings of the receiver and to download data using portable or PC, smartphone or tablet.



TILT CENTERING

It's possible to measure points with inclination up to 30°. The tilt compensator installed inside can automatically correct the coordinates of the points collected in accordance with the tilt angle and tilt direction of the range pole.



TWO INTELLIGENT BATTERIES

Stonex \$10A is delivered with two high capacity smart batteries. The power level can be checked from the controller and directly from a simple led bar on the battery by the simple press of a button.



RUGGED DESIGN IP67 PROTECTION

IP67 certification, combined with a high shock resistance guarantee the maximum strength and the best water and dust tight even in harsh environments.





aRTK & Atlas® Correction Service

\$10A is new Stonex GNSS Receiver able to automatically select the best combination of GNSS signals with the possibility to receive Atlas® real time corrections when the connection signals are interrupted or not available.

aRTK is an innovative feature available in Stonex \$10A GNSS Receiver that greatly mitigates the impact of land-based communication instability.

- aRTK delivered via satellite for uninterrupted centimetre positioning in areas where local RTK communication links are unstable.
- aRTK provides an additional layer of communication redundancy to RTK users, ensuring that productivity is not impacted by intermittent data connectivity.

Thanks to aRTK the receiver is able to continue generating RTK positions in case the land based RTK correction source becomes unavailable for few minutes.

Atlas® is a subscription for \$10A aimed to achieve 3 different levels of accuracy depending on subscription type that you need. Atlas® gives the precise positioning centimeters around the world, perfect when working in difficult areas.

Main features

- · No RTK base station or RTK network required
- Correction data is continuously transmitted by satellite L-Band or Internet, delivering global coverage
- Bridging RTK outages for uninterrupted accurate positioning
- Autonomous remote position within centimeter accuracy
- Retain position accuracy during RTK data stream losses
- Keep position accuracy as long as needed



SureFix Robust RTK Positioning

SureFix is the new processor that runs in combination with GNSS engine to provide high fidelity RTK quality information. The SureFix processor takes several inputs and determines the quality of the RTK solution in the form of "quality indicators". The indicators are then combined with RTK data and provide the user with high fidelity information about the quality of the RTK solution.

RECEIVER MULTI-FRE	QUENCY				
	GPS: L1 C/A, L1C, L1P, L2C, L2P, L5				
	GLONASS: L1 C/A, L1P, L2C, L2P,L3				
Satellite Tracked	BEIDOU: B1, B2, B3				
Sateline Tracked	GALILEO: E1, E5a, E5b, Alt-BOC, E6				
	QZSS: L1 C/A, L1C, L2C, L5				
	SBAS: L1, L5				
L-Band	Atlas H10 / H30 / Basic				
Channels	600				
Position Rate	5 Hz, optional up to 20 Hz				
Signal Reacquisition	< 1 sec				
RTK Signal Initialization	Typically < 4 sec				
Hot Start	Typically < 15 sec				
Initialization Reliability	> 99.9 %				
Internal Memory	8 GB				
Micro SD Card	Expansion slot up to 32 GB				

POSITIONING!

POSITIONING*	
HIGH PRECISION STAT	TIC SURVEYING
Horizontal	2.5 mm + 0.1 ppm RMS
Vertical	3.5 mm + 0.4 ppm RMS
FAST STATIC	
Horizontal	3 mm + 0.5 ppm RMS
Vertical	5 mm + 0.5 ppm RMS
CODE DIFFERENTIAL	POSITIONING
Horizontal	0.25 m RMS
Vertical	0.45 m RMS
SBAS POSITIONING ²	
Horizontal	0.50 m RMS
Vertical	0.85 m RMS
REAL TIME KINEMATI	C (< 30 Km) - NETWORK SURVEYING3
Fixed RTK Horizontal	8 mm + 0.5 ppm RMS
Fixed RTK Vertical	15 mm + 0.5 ppm RMS

INTEGRATED GNSS ANTENNA

High accuracy four constellation micro-strip antenna, zero phase center, with internal multipath suppressive board

INTERNAL RADIO

Type	Tx - Rx				
Frequency Range	410 - 470 MHz				
Channel Spacing	12.5 KHz / 25 KHz				
M B	3-4 Km in urban environment				
Maximum Range	Up to 10 Km with optimal conditions4				
	OF to 10 till their op amar contacto				

Illustrations, descriptions and technical specifications are not binding and may change

- Accuracy and reliability are generally subject to satellite geometry (DOPs), multipath, atmospheric conditions and obstructions. In static mode they are subject even to occupation times: the longer is the Baselline, the longer must be the occupation time.

 Depends on SBAS system performance.

 Network RTK precision depends on the network performances and are referenced to
- the closest physical base station.

 4 Varies with the operating environment and with electromagnetic pollution.

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Band	GSM/GPRS/EDGE/3G/LTE:
	850/900/1800/1900 MHz
	WCDMA/HSDPA:
	800/850/900/1900/2100 MHz

CCM/CDDC/EDCE/2C/LTE.

COMMUNICATION

	7-pins Lemo and 5-pins Lemo
I/O Connectors	interfaces. Multifunction cable with
	USB interface for PC connection
Bluetooth	2.4 GHz class II
Wi-Fi	802.11 b/g/n
Web UI	To upgrade the software, manage the status and settings, data download, etc. via smart phone, tablet or other internet enabled electronic device
Reference outputs	RTCM 2.3, 3.0, 3.1, 3.2 CMR, CMR+
Navigation outputs	GGA, ZDA, GSA, GSV, GST, VTG, RMC, GLL

POWER SUPPLY

	Rechargeable and replaceable
Battery	10.8 V - 3400 mAh
	Intelligent lithium battery
Voltage	9 to 22 V DC external power input
	with over-voltage protection
	(5 pins Lemo)
Working Time	Up to 8 hours (1 battery)
Charge Time	Typically 4 hours

PHYSICAL SPECIFICATION

Dimensions	φ 140 mm x 145 mm
\A(-:-b+	1.25 Kg (w/o battery)
Weight	1.45 Kg (with battery)
Operating Temperature	-40°C to 65°C (-40°F to 149°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Waterproof/Dustproof	1P67
Charle Basistan	Designed to endure to a 2 m pole drop on
Shock Resistance	concrete floor with no damage
Vibration	Vibration resistant



STONEX® Part of UniStrong

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STONEX AUTHORIZED DEALER