



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
 639000029

PAGE
 1

ADDRESS CORRESPONDENCE TO ATTENTION OF
 MICHAEL AUSTIN
 304-558-2402

RFQ COPY
 TYPE NAME/ADDRESS HERE

VENDOR

SHIP TO

DIVISION OF HIGHWAYS
 PLANNING DIVISION
 BUILDING 5, ROOM A848
 1900 KANAWHA BOULEVARD EAST
 CHARLESTON, WV
 25305-0430

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
02/16/09				

BID OPENING DATE: 02/25/09 BID OPENING TIME 01:30PM

LINE	QUANTITY	UCP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	EA		TRACK		
GPS VEHICLE TRACKING SYSTEM, COVERT TRI-BAND ANTENNA						
ADDENDUM NO. 3						
THE ATTACHED PAGES 9, 10, 11, AND 12 REPLACES THE ORIGINAL PAGES 9, 10, 11, AND 12 IN ITS ENTIRETY.						
ANSWERS TO QUESTIONS ATTACHED.						
BID OPENING DATE AND TIME CHANGED						
FROM: 02/18/09 AT 1:30 P.M.						
TO: 02/25/09 AT 1:30 P.M.						
NO OTHER CHANGES.						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
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TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
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WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

**GENERAL TERMS & CONDITIONS
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)**

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. All quotations are governed by the *West Virginia Code* and the *Legislative Rules* of the Purchasing Division.
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
5. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
6. Payment may only be made after the delivery and acceptance of goods or services.
7. Interest may be paid for late payment in accordance with the *West Virginia Code*.
8. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, this Contract may be deemed null and void, and terminated without further order.
14. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
15. **WEST VIRGINIA ALCOHOL & DRUG-FREE WORKPLACE ACT:** If this Contract constitutes a public improvement construction contract as set forth in Article 1D, Chapter 21 of the West Virginia Code ("The West Virginia Alcohol and Drug-Free Workplace Act"), then the following language shall hereby become part of this Contract: "The contractor and its subcontractors shall implement and maintain a written drug-free workplace policy in compliance with the West Virginia Alcohol and Drug-Free Workplace Act, as set forth in Article 1D, Chapter 21 of the West Virginia Code. The contractor and its subcontractors shall provide a sworn statement in writing, under the penalties of perjury, that they maintain a valid drug-free work place policy in compliance with the West Virginia and Drug-Free Workplace Act. It is understood and agreed that this Contract shall be cancelled by the awarding authority if the Contractor: 1) Fails to implement its drug-free workplace policy; 2) Fails to provide information regarding implementation of the contractor's drug-free workplace policy at the request of the public authority; or 3) Provides to the public authority false information regarding the contractor's drug-free workplace policy."

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division.
2. **SPECIFICATIONS:** Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Complete all sections of the quotation form.
4. Unit prices shall prevail in case of discrepancy.
5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
6. **BID SUBMISSION:** All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130

Fleet Productivity Reporting Mandatory Requirements including:

- Run ranking report for safety, measuring acceleration exerted on the vehicle during various maneuvers such as turns, starts, stops and speeds
- Report driver safety scores for each individual driver as a composite score based on factors including turns, speed, stops and starts.
- Stop reports with speed and duration thresholds
- Idle Time reporting
- Capture duration time to detect entry and exit of sites
- Track mileage on engine and run time hours
- All inclusive activity reporting
- Run reports for multiple drivers simultaneously
- Speeding reports containing speed and duration thresholds
- Visitation reports
- Event reporting including ignition on, ignition off, enter geo-site, exit geo-site, start moving, stop moving and speeding information
- Non-work hour asset activity reporting
- User defined upcoming vehicle maintenance reporting
- Drivers hours and mileage reporting
- Work/Home Sites by site and by vehicle

Integration:

- SQL Data feed from Vendor's Data Center allowing for customized reporting including trend analysis
- MSMQ messaging capabilities

Hardware Components**GENERAL SPECIFICATIONS for In Vehicle Display (IVD) and On Board Black Box (OBDD)**

Input Voltage: 9.0 – 32.0 VDC GPRS or CDMA TNC (receptacle) 50 Ω
Status LEDs: GPS (green), GPRS OR CDMA (amber)

Current Consumption (Typical)

Transmitting with IVD. 340 mA (1.6 A peak) at 12 VDC
Transmitting without IVD. 270 mA (1.5 A peak) at 12 VDC
Not transmitting with IVD. 160 mA at 12 VDC
Not transmitting without IVD. 90 mA at 12 VDC
Not transmitting sleep mode. <10 mA at 12 VDC

Inputs & Outputs

Discrete Inputs. (4) switch closures
Ignition Sense Off. <0.8 V
Ignition Sense On. >2.4 V
Pulse Counting Inputs. (3) minimum pulse width: 500 μ s
Discrete Outputs. (3) 200 mA low-side drivers
Sensor Power Output. (1) 150 mA at 11.8 V \pm 1.0 V

Message Formats

Status LEDs . MSMQ
GPS (green), GPRS or CMDA (amber)

PHYSICAL SPECIFICATIONS

Assembly . Top: Injection molded plastic with integrated shield
Base: Aluminum
Size. 228 mm x 121 mm x 36 mm (W x D x H)
(8.97" W x 4.76" D x 1.42" H)
Weight . 485 g (1 lb, 1.1 oz.)

Connectors

IVD Port. DB-9 (receptacle)
Serial Port. EIA-232 RJ-45 (receptacle)
Power & Discrete I/O Molex Micro-Fit 3.0 16-pin dual row locking receptacle SIM
Carrier. Antennas GPS.SMA (receptacle) 50 Ω
GPRS or CDMA Quad Band. TNC (receptacle) 50 Ω

GPS SPECIFICATIONS

Receiver . L1 frequency, C/A code (SPS)
8-channel continuous tracking receiver
Update Rate . Once per second maximum
Accuracy,
Position. < 10 meters (50 % CEP)
Velocity. < 0.5 meter/second
First acquisition
Cold start . < 180 seconds (90 %)
Warm start. < 45 seconds (90 %)
Reacquisition after signal loss . <2 seconds (90 %)
Datum . WGS-84

GPRS or CMDA SPECIFICATIONS

Global. Internal GSM/GPRS Module, Multislot Class 12
Quad Band GSM 850/900/1800/1900MHz
SIM . 3V
Regulatory Approvals . FCC, PTCRB

CDMA Specifications

CMMA 1xRTT: Internal Kyocera M200 Module 1xRTT:
Dual Band CDMA 800/1900 MHz

Regulatory Approvals: FCC Part 15/22/24
Network Approvals: Verizon, Sprint

ENVIRONMENTAL SPECIFICATIONS

Temperature

Normal Operation. -30 °C to 60 °C (-22 °F to 149 °F)
Non Operating. -40 °C to 85 °C (-40 °F to 185 °F)
Humidity. 5% to 95% RH, non-condensing at +40 °C

Vibration

0.008 g²/Hz . 5 Hz
+3 dB/Octave . 5 Hz to 20 Hz
0.05 g²/Hz . 20 Hz to 100 Hz
-3 dB/Octave . 100 Hz to 800 Hz
0.001 g²/Hz . 800 Hz to 1000 Hz

Shock

Operational. 40 g for 11 ms
Non-Operational. 75 g for 6 ms
Vehicle transients. ETS 301 489-1; section 9.6

Installation

Vendor must visit on-site and provide certified training service and related equipment to train WV DOT on self install and diagnostics.

Answers to GPS North America/SignalTrac Questions

1. Do you need this information to display over the standard Google Map that displays vehicle location?

- *Ability to display current weather conditions including Doppler radar at **back office System mapping***

2. Running ranking reports for safety, measuring acceleration exerted on the vehicle during various maneuvers such as turns, etc. What are you looking to accomplish from this data?

- *WV DOT needs to address aggressive driving and the accidents that result are significant contributors to the cost of operation. I want to be able to measure the average vehicle speed via high resolution GPS positioning, while **measuring G Forces exerted on right and left turns**. Measuring acceleration exerted on the vehicle during various starts, and stops and turns will help the safety of my fleet.*

1. *I need to calculate a score for each maneuver. (start, stop, right and left hand turns)*
2. *Reports scores for individual drivers as well as a composite score*
3. *Compares individual scores to the average scores or the fleet.*

3. Ability to utilize multiple cell carriers... Verizon and Sprint to not utilize GPRS. You cannot have some vehicles with Verizon SIMs and some vehicles using AT&T SIMS. Please briefly explain your need to use multiple carriers.

- *We might Mix and Match Carriers due to different geography based vehicles*