



The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at ***wvOASIS.gov***. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at ***WVPurchasing.gov*** with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.

## Header

List View

## General Information

## Contact

## Default Values

## Discount

## Document Information

Procurement Folder: 91723

Procurement Type: Central Master Agreement

Vendor ID: 000000218884



Legal Name: CMI INC

Alias/DBA:

Total Bid: \$177,602.50

Response Date: 05/25/2015



Response Time: 16:26

SO Doc Code: CRFQ

SO Dept: 0612

SO Doc ID: DPS1500000026

Published Date: 5/19/15

Close Date: 5/26/15

Close Time: 13:30

Status: Closed

Solicitation Description: Addendum No. 1 - Breath Testing  
Instruments and accessories

Total of Header Attachments: 0

Total of All Attachments: 0



Purchasing Division  
2019 Washington Street East  
Post Office Box 50130  
Charleston, WV 25305-0130

State of West Virginia  
Solicitation Response

Proc Folder : 91723

Solicitation Description : Addendum No. 1 - Breath Testing Instruments and accessories

Proc Type : Central Master Agreement

Date issued	Solicitation Closes	Solicitation No	Version
	2015-05-26 13:30:00	SR 0612 ESR05141500000003786	1

VENDOR

000000218884

CMI INC

FOR INFORMATION CONTACT THE BUYER

Tara Lyle  
(304) 558-2544  
tara.l.lyle@wv.gov

Signature X

FEIN #

DATE

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

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Ethanol breathalyzer	25.00000	EA	\$6,097.00	\$152,425.00

Comm Code	Manufacturer	Specification	Model #
41116211			

<b>Extended Description :</b>	Addendum No. 1 - Responses to vendor questions attached. The bid opening remains on 05/26/2015 at 1:30 pm. See attached pages. *****
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Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
2	Ethanol	180.00000	EA	\$99.00	\$17,820.00

Comm Code	Manufacturer	Specification	Model #
15101511			

<b>Extended Description :</b>	3.1.2 - Contract Item #2 - Dry Gas Refills, Intoximeter #22-9906-00 or equal
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Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
3	Mouthpieces	12000.00000	EA	\$0.25	\$3,000.00

Comm Code	Manufacturer	Specification	Model #
60131509			

<b>Extended Description :</b>	3.1.3 - Contract Item #3 - Mouthpieces - Must be compatible with Intoximeter EC/IR II or equal
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Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
4	Printer or copier paper	150.00000	ROLL	\$3.25	\$487.50

Comm Code	Manufacturer	Specification	Model #
14111507			

<b>Extended Description :</b>	Unit of measure changed from EACH to ROLL by Addendum No. 1 3.1.4 - Contract Item #4 - Printer Paper - Must be compatible with Intoximeter EC/IR II or equal
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Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
5	Education and Training Services	6.00000	EA	\$645.00	\$3,870.00

Comm Code	Manufacturer	Specification	Model #
86000000			

Extended Description :	3.1.5 Contract Item #5 - Training for additional personnel at a later date to be paid by the WV State Police. 40 hour course
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316 E. 9th St.  
Owensboro, KY 42303  
1-866-835-0690  
Fax: 270-685-6678  
www.alcoholtest.com

May 22, 2015

Department of Administration, Purchasing Division  
2019 Washington Street East  
Charleston, WV 25305-0130  
Attn: Ms. Tara Lyle  
Buyer Supervisor

Re: Solicitation No: CRFQ 0612 DPS1500000026

Dear Ms. Lyle:

I want to thank you for the opportunity to provide a proposal regarding CRFQ 0612 DPS1500000026. I would also like to thank you in advance for the time that will be spent in the review of CMI's proposal.

CMI's response to this proposal covers all of the requirements seen as crucial by the state as depicted in the RFQ. We fully understand and support your conviction to provide the citizens of West Virginia with a breath alcohol testing system that supplies incontrovertible evidence in DUI cases. CMI is offering a complete system that will further assist the state in meeting the needs of the community while helping the program administrators by giving them more tools and control over the program.

CMI, Inc., has been in the breath testing business for over 30 years providing industry leading evidential breath testing instrumentation, accessories, and supplies. CMI's latest breath alcohol testing instrument, the Intoxilyzer 9000 is approved by the National Highway Traffic Safety Administration and has been selected by 8 major programs, in the United States and abroad, since its release 3 years ago. The Intoxilyzer 9000 utilizes a pulsed IR system with four measurement wavelengths providing both high reliability due to no moving parts in the analytical system and high specificity due to the number of measurement bands. Coupled with COBRA V5 as our communications data management software, based on SQL server, CMI's system is state-of-the-art.

CMI is committed to all our customers, in providing support for all of their breath testing needs including, but not limited to, instrumentation, data management software, instrument communication software, service and training support, and legal and technical support when needed. Our staff at CMI has deep experience in providing

**INTOXILYZER®** ...so you can breathe easier



Page 2  
Ms. Tara Lyle

support to numerous customers similar in size and need to the state of West Virginia and look forward to working with you in the future.

After an exhaustive review of the request for proposal, it is our conclusion that the CMI system, centered on the infrared-based Intoxilyzer 9000 best meets the requirements laid out therein. CMI looks forward to working with you and the West Virginia State Police in serving the people and communities of West Virginia.

Thank you,

A handwritten signature in blue ink, appearing to read "Toby S. Hall". The signature is fluid and cursive, with the first name "Toby" and last name "Hall" being clearly legible.

Toby S. Hall  
President

**ADDENDUM ACKNOWLEDGEMENT FORM**  
**SOLICITATION NO.: DPS1500000026**

**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.

**Addendum Numbers Received:**

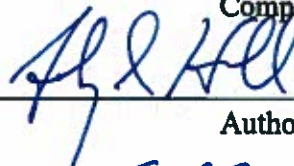
(Check the box next to each addendum received)

<input checked="" type="checkbox"/> Addendum No. 1	<input type="checkbox"/> Addendum No. 6
<input type="checkbox"/> Addendum No. 2	<input type="checkbox"/> Addendum No. 7
<input type="checkbox"/> Addendum No. 3	<input type="checkbox"/> Addendum No. 8
<input type="checkbox"/> Addendum No. 4	<input type="checkbox"/> Addendum No. 9
<input type="checkbox"/> Addendum No. 5	<input type="checkbox"/> Addendum No. 10

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

CMI, Inc.

Company



Authorized Signature

5-22-2015

Date

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



STATE OF WEST VIRGINIA  
Purchasing Division

## PURCHASING AFFIDAVIT

**MANDATE:** Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

**EXCEPTION:** The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

**DEFINITIONS:**

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

**AFFIRMATION:** By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

**WITNESS THE FOLLOWING SIGNATURE:**

Vendor's Name: CMI, Inc.

Authorized Signature: *[Signature]* Date: 5-22-15

State of Kentucky

County of Daviess, to-wit:

Taken, subscribed, and sworn to before me this 22 day of May, 2015

My Commission expires 5/27, 2018.

**AFFIX SEAL HERE**

**NOTARY PUBLIC**

*[Signature: Donna K. Parks]*

# State of West Virginia

## VENDOR PREFERENCE CERTIFICATE

Certification and application\* is hereby made for Preference in accordance with *West Virginia Code*, §5A-3-37. (Does not apply to construction contracts). *West Virginia Code*, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the *West Virginia Code*. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Vendor Preference, if applicable.

1. n/a Application is made for 2.5% vendor preference for the reason checked:  
 Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,  
n/a Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,  
n/a Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or,
2. n/a Application is made for 2.5% vendor preference for the reason checked:  
 Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
3. n/a Application is made for 2.5% vendor preference for the reason checked:  
 Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
4. n/a Application is made for 5% vendor preference for the reason checked:  
 Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,
5. n/a Application is made for 3.5% vendor preference who is a veteran for the reason checked:  
 Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,
6. n/a Application is made for 3.5% vendor preference who is a veteran for the reason checked:  
 Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.
7. n/a Application is made for preference as a non-resident small, women- and minority-owned business, in accordance with *West Virginia Code* §5A-3-59 and *West Virginia Code of State Rules*.  
 Bidder has been or expects to be approved prior to contract award by the Purchasing Division as a certified small, women- and minority-owned business.

Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.

By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.

Under penalty of law for false swearing (*West Virginia Code*, §61-5-3), Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.

Bidder: CMT, Inc.

Signed: [Signature]

Date: 5-22-2015

Title: President



**Exhibit 1**

**REQUEST FOR QUOTATION**  
**CRFQ DPS1500000026 - Evidential Breath Alcohol Testing Instruments**

**3. GENERAL REQUIREMENTS:**

- 3.1 Contract Items and Mandatory Requirements:** Vendor shall provide Agency with the Contract Items listed below on an open-end and continuing basis. Contract Items must meet or exceed the mandatory requirements as shown below.

This document contains CMI, Inc.'s response as to how the Intoxilyzer 9000 meets and/or in many instances exceeds the requirements specified in "3. General Requirements". This document also contains a response to "8.4 Contract Manager". It is CMI, Inc.'s intent to convey a fully compliant bid response. The response is intended to be descriptive and convey compliance without simply restating the requirement. CMI, Inc.'s responses to the referenced sections may be found in blue. CMI, Inc. understands all other sections of the Specification document (1, 2, 4, 5, 6, 7, and 8) not restated here in Exhibit 1.

- 3.1.1 Contract Item #1 — Evidential Breath Alcohol Testing Instrument equipped with the ethanol dry gas standards Intoximeter EC/IR II or equal**

CMI, Inc., utilizes advanced, state of the art pulsed infrared technology to manufacture the only multi-wavelength, pulsed IR breath alcohol measurement instruments on the market today. Our newest instrument, the Intoxilyzer 9000 analyzes the sample at four (4) different wavelengths – three (3) wavelengths in the 9  $\mu$ M range and one (1) wavelength in the 8  $\mu$ M range. The pulsed IR source is manufactured using the latest Micro-Electro-Mechanical-Systems (MEMS) technology. Combined, the system analyzes the sample without utilizing moving parts in the analytical process providing a very reliable system with exceptional up-time. The Intoxilyzer 9000 is unencumbered by the limitations of a fuel cell and its mechanically moving sampling system.

The complete Intoxilyzer 9000 package offered to the State of West Virginia may be found in Exhibit 2.

- 3.1.1.1** Must be compatible with existing external printers (Okidata B4600), E-Seek 200 Card Readers and hardware to operate these instruments.

**The Intoxilyzer 9000 meets this specification.**

Prior to bid award and at the discretion of the WV State Police, the state may require any and all bidders to provide one or more similar instruments for the purpose of testing under conditions in which the instrument will be operated.

**Exhibit 1**

**REQUEST FOR QUOTATION  
CRFQ DPS1500000026 - Evidential Breath Alcohol Testing Instruments**

**CMI, Inc. agrees with this requirement and will submit the required instruments for testing when advised by WV State Police.**

All equipment will be new, and of the design which was evaluated or approved by the WV State Police

**CMI, Inc. agrees to this requirement.**

The Instrument shall be approved by the United States Department of Transportation, National Highway Traffic Safety Administration and appear on "The Conforming Products List for Evidence Breath Testers and the West Virginia Bureau of Public Health.

**The Intoxilyzer 9000 was approved by NHTSA in 2012. The approval letter is included in the submission information as Exhibit 3.**

The Instrument shall have the necessary approval of the The Federal Communications Commission.

**The Intoxilyzer 9000 meets and exceeds this specification.**

**The Intoxilyzer 9000 meets the following Federal Communications Commission (FCC) specifications - Part 15 Class B and Part 68. In addition, the instrument has been Underwriters Laboratories (UL) approved.**

The instrument specifications must be equal to or exceed the specifications of the approved Intoximeters EC/IR II.

**The Intoxilyzer 9000 meets and exceeds the specifications of the Intoximeter EC/IR II.**

**Listed below, please find a summary of the key features/benefits found only with the Intoxilyzer 9000. Please note, Exhibit 4 – Intoxilyzer 9000 brochure and Exhibit 5 – Intoxilyzer 9000 Detailed Specification have been included with this bid submission.**

- **Enhanced Operating System: The Intoxilyzer 9000 runs on the Microsoft Windows Embedded CE (WinCE) 6.0 R3 operating system which provides a high quality graphical user interface and a flexible platform for expanding system features.**

**Exhibit 1**

**REQUEST FOR QUOTATION**  
**CRFQ DPS1500000026 - Evidential Breath Alcohol Testing Instruments**

- **Extended Ethanol Measurement Range: 0.000 – 0.650 g/210L.**  
This measurement range can be reduced if customer desired.
- **Faster Response Time After Subject Sample: Immediate – subject sample results are available immediately after sample acceptance, independent of sample concentration.**
- **Extended Operational Temperature Range: 0°C to 40°C.**
- **Enhanced Display – 7”, color-graphic touch-screen, 800 x 480 pixel resolution**
- **Increased Keyboard Options: On-Screen, External USB, or Wireless**
- **Versatile Instrument Pedestal: Allows the operator to adjust the instrument position for optimal access and view of the display. If needed, this same pedestal serves as a wall mount thus creating a space-saving testing environment.**
- **Enhanced Audible Indicators – Single and multi-tone signals can be utilized via the software to denote the operation and testing status. Embedded vocal phrases and/or instructions can also be utilized.**
- **Enhanced Connectivity – 4 USB Device ports, 1 USB Comms Port, 1 Ethernet Port, 1 Analog Modem Port, and 1 RS232 Port are standard to the instrument. The number of USB ports can be expanded if customer desired. All ports are contained within the instrument.**
- **Increased Memory – Standard memory capacity is 512 megabytes (MB) capable of storing up to 10,000 test records and is expandable to 32,000 megabytes (MB) aka 32 gigabytes (GB) via an internal socketed SD card.**
- **Enhanced Diagnostic Routines – An Internal Test Procedure (ITP) may be added to the Diagnostic Test protocol further increasing the integrity of the subject test. The ITP checks the system all the way from the IR source through the IR detection electronics and finally through the stored calibration to ensure the instrument**

**Exhibit 1**

**REQUEST FOR QUOTATION  
CRFQ DPS1500000026 - Evidential Breath Alcohol Testing Instruments**

**calibration is sound, all without the need of external standards dry or wet.**

- **Increased Mobile Testing – An internal 12VDC battery may be installed in the instrument allowing testing to occur away from any external power source, i.e. wall outlet or 12VDC supply.**

The successful bidder shall notify the WV State Police of any design modification, internal or external, made by the manufacturer for a period of five years from the date of acceptance.

**CMI, Inc. agrees to this requirement.**

The successful bidder must supply expert testimony to establish instrument credibility on up to five occasions in West Virginia courts of law upon the request of the West Virginia State Police.

**CMI, Inc. agrees to this requirement.**

**Warranty**

All Equipment will be covered by a warranty against defective materials, workmanship and performance for a period of two years from the date of initial delivery. Bidder agrees to furnish, without cost to the WV State Police, all labor, materials and transportation costs during the warranty period.

**CMI, Inc. agrees to this requirement.**

All defective equipment purchased shall be repaired and returned within thirty days. Should an instrument require three or more major repairs during the initial twelve month period of operation it will be considered a defective instrument and be replaced free of charge.

**CMI, Inc. agrees to this requirement.**

All software for both instrument operation and instrument communication shall be warranted against deficiencies in execution and operation.

**CMI, Inc. agrees to this requirement.**

**Exhibit 1**

**REQUEST FOR QUOTATION  
CRFQ DPS1500000026 - Evidential Breath Alcohol Testing Instruments**

**Documentation of Printed Material**

The successful bidder will provide all the latest schematic circuit diagrams, one set of engineering drawings, and all other documentation necessary for repair, maintenance, operation and troubleshooting of the instrument.

**CMI, Inc. agrees to this requirement.**

The bidder will provide a parts list with the current replacement costs for each component.

**As per Addendum No. 1 CRFQ – DPS1500000026 Q4:/A4, CMI agrees to supply a parts list if chosen as the successful bidder.**

The vendor shall provide authorization to copy material from the instrument operating and technical manuals for use in training classes.

**CMI, Inc. agrees to this requirement.**

The vendor shall provide copies of maintenance manuals, technical manuals, operating manuals and all documentation that covers instrument maintenance, operation, troubleshooting and service procedures at no cost to the WV State Police.

**CMI, Inc. agrees to this requirement.**

**Software**

The Instrument shall be inherently non-responsive to acetone or shall have the capabilities to detect acetone as an interferent and subtract from the final analysis.

**The Intoxilyzer 9000 meets this specification.**

**The Intoxilyzer 9000 is inherently non-responsive to acetone by design. Additionally, the Intoxilyzer 9000 can detect interferents independent of influence of the breath test readings. An example, if a person had not been drinking and therefore had a breath test reading of 0.000 g/210L, but did have a severe medical condition, unlike any other breath testing instrument, the Intoxilyzer 9000 could indicate that the person had an interferent on his breath which**

**Exhibit 1**

**REQUEST FOR QUOTATION  
CRFQ DPS1500000026 - Evidential Breath Alcohol Testing Instruments**

**in most instances would prompt the operator to seek medical attention.**

**Note, if customer desired, this functionality can be disabled.**

The Instrument is capable of aborting a test when the Instrument has determined the presence of an interfering substance. The printed test record shall indicate when an interfering substance was detected.

**The Intoxilyzer 9000 meets this specification.**

**Utilizing four (4) measurement wavelengths, the Intoxilyzer 9000 provides exceptional specificity to ethanol. The Intoxilyzer 9000 will either detect and indicate that an interferent was present in the sample or provide an unaffected result as required. Of note, since the Intoxilyzer 9000 is an infrared-only system, lingering effects of interferents on the fuel cell, is not an issue.**

The program shall be able to maintain and record the date and time and adjust for daylight savings time automatically. The Instrument must also be able to correctly recognize leap years and correctly treat these events in all calculations, databases and calendars that use or produce date values.

**The Intoxilyzer 9000 meets this specification.**

**In addition, the Intoxilyzer 9000 can also be linked via COBRA V5 to a Network Time Protocol (NTP) server allowing the instrument to obtain the exact time regularly.**

The Instrument shall store test data in memory so that a remote communications program supplied by the vendor can retrieve it.

**The Intoxilyzer 9000 meets and exceeds this specification.**

**COBRA V5, a remote communications and data management program, is used to retrieve instrument data. The Intoxilyzer 9000 is capable of secure Ethernet communications with the COBRA V5 data management software using NIST standard AES-256 encryption. CMI, Inc. agrees to supply COBRA V5.**

**Communication transfers records and other information**



**Exhibit 1**

**REQUEST FOR QUOTATION  
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from an instrument to COBRA V5 where both are located inside a local network. The Intoxilyzer 9000 is also capable of creating a Virtual Private Network (VPN) connection into a remote network, provided the connection is supported by the network, without needing secondary hardware to create the VPN connection. This allows the Intoxilyzer to be placed anywhere there is an Ethernet connection whether it is on a local network or on the internet and still provide secure connectivity to the COBRA V5 database management software. The Intoxilyzer 9000 is the only instrument capable of VPN connectivity without external hardware.

The program shall be capable of automatically producing single or multiple printed records of the test information upon the completion of the test sequence

**The Intoxilyzer 9000 meets and exceeds this specification.**

Using the internal printer, the Intoxilyzer 9000 can print single or multiple copies of the test sequence. The printer roll used by the instrument is a 3" wide roll allowing for larger print as well as increased information across the printout.

Utilizing "forms technology", the Intoxilyzer 9000, when connected to an external laser printer, may print the required forms necessary for a DUI arrest packet. The instrument is capable of storing in memory the required forms which are populated via the data entry questions. The populated required forms are printed once the subject test is complete. This same "forms technology" may be used for instrument certification i.e. calibration checks and instrument installation/field protocols, etc. Again, all maintenance/certification forms can be populated by the instrument during the specific testing sequence. Each form is printed out once the test sequence is complete. The Intoxilyzer 9000's "forms technology" eliminates completing forms manually thus saves time for both law enforcement personnel and technicians. Note, should the customer desire, all forms can include watermarks or state seals, etc.

The Instrument shall have a software mode, which allows maintenance and repair technicians to review the condition of key instrument components.

**The Intoxilyzer 9000 meets and exceeds this specification.**

**Exhibit 1**

**REQUEST FOR QUOTATION  
CRFQ DPS1500000026 - Evidential Breath Alcohol Testing Instruments**

**Repair/maintenance technicians may access via password a menu level showing real-time diagnostic monitoring of key instrument components.**

**This same real-time diagnostic monitoring may be performed via the technician using COBRA V5. This remote monitoring allows a technician to troubleshoot and correct an instrument situation without the need of traveling to the instrument site.**

The successful bidder will meet with the West Virginia State Police to set up instrument parameters and software requirements prior to filing any orders.

**CMI, Inc. agrees to this requirement.**

The successful bidder will provide one software update after delivery of units, free of charge, to correct any problems, deficiencies, or oversights found with the instruments internal software.

**CMI, Inc. agrees to this requirement.**

The software program shall allow the instrument to automatically perform a minimal test sequence with state statutes and administrative rule. These include:

Air Blank  
Calibration Check  
Air Blank  
Subject Test  
Air Blank  
Calibration Check  
Air Blank

**The Intoxilyzer 9000 meets this specification.**

**Analytical Requirements**

The instrument must utilize the principle of infrared absorption, or fuel cell Electro-chemical conversion or the combination of both to analyze breath alcohol concentrations and report analytical results as grams of alcohol per 210 liters of breath.

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CMI, Inc., utilizes advanced, state of the art pulsed infrared technology to manufacture the only multi-wavelength, pulsed IR breath alcohol measurement instruments on the market today. Our newest instrument, the Intoxilyzer 9000 analyzes the sample at four (4) different wavelengths – three (3) wavelengths in the 9  $\mu$ M range and one (1) wavelength in the 8  $\mu$ M range. The pulsed IR source is manufactured using the latest Micro-Electro-Mechanical-Systems (MEMS) technology. Combined, the system analyzes the sample without utilizing moving parts in the analytical process providing a very reliable system with exceptional up-time. The Intoxilyzer 9000 is unencumbered by the limitations of a fuel cell and its mechanically moving sampling system.

The Instrument shall be able to automatically perform system checks on its key components during a test sequence. If a malfunction is detected, the test shall be aborted and the nature of the malfunction printed on the test record.

**The Intoxilyzer 9000 meets this specification.**

The instrument automatically performs a Diagnostic Test upon warm up from a cold start or standby mode. In addition, the custom subject test protocol can be specified to include Diagnostic Tests before the subject test, after the subject test or both. When the Intoxilyzer 9000 performs a Diagnostic Test, the following items are checked:

Analytical Checksum	ADC
Voltage/Current	Analytical Status
Memory	Version Status
Real Time Clock	ITP (Optional)
Temperature Regulation	

**Exhibit 6, included with this bid submission, provides more detail regarding each of the above tests performed during a Diagnostic Test.**

During the test sequence, the Instrument must be capable of conducting an analysis of the ambient air prior to or as part of the subject test sequence. If this test does not demonstrate that the ambient air is free of alcohol, the test shall be aborted and the results reported in the test record.

**Exhibit 1**

**REQUEST FOR QUOTATION  
CRFQ DPS1500000026 - Evidential Breath Alcohol Testing Instruments**

**The Intoxilyzer 9000 meets this specification.**

An ambient air blank must be run that demonstrates that the ambient air in the sample chamber prior to the subject providing a breath is free of alcohol or any other interfering substance that would influence the determination of alcohol concentration

**The Intoxilyzer 9000 meets this specification.**

The Instrument shall be designed to analyze end expired, near alveolar breath and have evaluation criteria built into the instrument operation program to determine when the sample is essentially alveolar in composition.

**The Intoxilyzer 9000 meets this specification.**

**The Intoxilyzer 9000 utilizes an IR-based slope detect system to detect end expiratory breath which is not possible with the single point sampling system of the fuel cell and is less accurate with a lower resolution IR bench.**

The Instrument shall be able to detect, reject and print out a notation of any invalid breath sample including samples contaminated with residual mouth alcohol.

**The Intoxilyzer 9000 meets and exceeds this specification.**

**The Intoxilyzer 9000 software is capable of identifying 'mouth alcohol', as opposed to a deep lung sample by monitoring the evolution of the alcohol curve, a feature not possible with typical fuel cell systems.**

The Instrument must be able to detect insufficient breath samples and either automatically aborts these invalid samples or gives a breath content value and print the result obtained.

**The Intoxilyzer 9000 meets this specification.**

**If proper sample conditions are not met, the software can report a 'insufficient sample', notify the operator, and record the highest BrAC result obtained as defined by WV State Police.**

**Exhibit 1**

**REQUEST FOR QUOTATION  
CRFQ DPS1500000026 - Evidential Breath Alcohol Testing Instruments**

Each Instrument shall be able to automatically acquire and analyze a sample from a wet bath simulator or be able to automatically acquire and analyze a sample of pressurized ethanol dry gas standard.

**The Intoxilyzer 9000 meets and exceeds this specification.**

**A locking gas delivery system is available for the Intoxilyzer 9000 utilizing a 67 liter refillable and/or non-refillable ethanol gas standard. The gas delivery system is an attached accessory to the Intoxilyzer 9000 and is easily capable of being transported while attached to the instrument. The attached accessory separates the pressurized gas standard from the compartment containing the analytical systems thus the argument that a leak within the standard affected the breath test result is completely AVOIDED. Additionally, the inlet port for the ethanol gas standard is separate from the port used for a wet bath simulator, allowing both to be attached at the same time. A second dry gas standard inlet port is an available option. The manner in which the instrument utilizes the external standard in the test sequence can be configured as previously specified in this RFQ or multiple tests can be performed.**

The instrument shall be quantitative over a minimum range of 0.000 to 0.400 grams of alcohol per 210 liters of air and measure known vapor ethanol concentration within 3% or +/- 0.003 grams per 210 liters of air, whichever is greater.

**The Intoxilyzer 9000 meets and exceeds this requirement with a measurement range of 0.000 to 0.650 grams/210 liters with an accuracy of +/- 3% or 0.003 grams/210 liters, whichever is greater.**

The instrument must have safeguards to prevent condensation of alcohol and moisture during the sampling process.

**The Intoxilyzer 9000 meets this specification.**

**The Intoxilyzer 9000 utilizes a heated breath hose to eliminate condensation of the subject's breath within the breath hose. All internal plumbing throughout the sample chamber are temperature regulated and maintained to prevent condensation. If any of these temperatures are outside of operational parameters, the test would be inhibited.**

**Exhibit 1**

**REQUEST FOR QUOTATION  
CRFQ DPS1500000026 - Evidential Breath Alcohol Testing Instruments**

**Hardware**

The Instrument shall allow for operator data input through a keyboard, with the capability of using the existing bar code reader, external printers and must be USB compatible.

**The Intoxilyzer 9000 meets and exceeds this specification.**

**The Intoxilyzer 9000 can connect to external keyboards through available USB device ports. The Intoxilyzer 9000 defaults to an integrated on screen "touch" keypad if the external keyboard is disconnected. Any number of currently available keyboards on the market can be used with the Intoxilyzer 9000. Certain wireless keyboards are also compatible with the Intoxilyzer 9000 and can be identified upon request.**

**The Intoxilyzer 9000 can interface with any number of USB printers currently on the market including the Okidata 4600.**

**The Intoxilyzer 9000 complies as it is compatible with the E-Seek 200 card reader.**

Each Instrument shall be equipped with Ethernet capability

**The Intoxilyzer 9000 meets this specification.**

The instrument must have a minimum of 1.54 Mbytes/4000 plus test data storage.

**The Intoxilyzer 9000 meets and exceeds this specification.**

**The Intoxilyzer 9000 will have a minimum storage of approximately 8,512 megabytes (8GB)/30,000 plus test data storage. This memory is expandable to 32 gigabytes (GB).**

The Instrument must come with manufacturer approved mouthpieces that are individually wrapped. The mouthpiece or the instrument must have a one way fast seating internal check valve

**The Intoxilyzer 9000 meets and exceeds this specification.**

**Exhibit 1**

**REQUEST FOR QUOTATION  
CRFQ DPS1500000026 - Evidential Breath Alcohol Testing Instruments**

**The instrument can utilize several available mouthpieces (with and without check valves) and can easily be adapted to accept the EC/IR II mouthpiece.**

**The Intoxilyzer 9000 also meets this specification by having the required internal check valve.**

The Instrument must be capable of operating in a temperature range from 10° centigrade to 40° centigrade.

**The Intoxilyzer 9000 meets and exceeds this specification.**

**The operating temperature for the Intoxilyzer 9000 is 0° to 40° centigrade.**

The Instrument must be capable of operating at a relative humidity range from 10% to 90% relative humidity.

**The Intoxilyzer 9000 meets and exceeds this specification.**

**The instrument may be operated in an environment with a relative humidity range of 10% to 100% RH, non-condensing. This allows the instrument to be operated in wider environmental conditions.**

**For example, the above bid specification does not allow the instrument to be operated outside under a shelter while it is raining. The Intoxilyzer 9000 can operate in such conditions.**

The Instrument's case construction should be of a durable aluminum machined or welded sheet metal or if outer case is a material other than metal, the inner surface must be coated with a metallic material to shield against Radio Frequency Interference (RFI)

**The Intoxilyzer 9000 complies with this requirement by both metal shielding the analytical section inside the instrument cover and in the case of an exceeding dense RFI field it also has the capability of warning the operator and inhibiting a test in those extreme situations. CMI can provide supporting documentation regarding the Intoxilyzer 9000's impermeability to RFI.**

**Exhibit 1**

**REQUEST FOR QUOTATION  
CRFQ DPS1500000026 - Evidential Breath Alcohol Testing Instruments**

The Instrument shall be supplied with an internal thermal printer capable of producing multiple copies of a test record upon completion of the test sequence.

**The Intoxilyzer 9000 meets this specification.**

**Unlike instruments that use a 2 ¼ inch wide roll of paper, the Intoxilyzer 9000's internal thermal printer uses a 3 inch wide paper roll allowing more information to be contained on the printout and in a larger size print. The thermal paper has a 7 year life expectancy if proper storage conditions are met.**

The Instrument shall be capable of printing to an external printer.

**The Intoxilyzer 9000 meets this specification.**

**The instrument can interface with any number of USB printers currently on the market including the Okidata B4600.**

The Instrument shall be designed to operate on a normal voltage of 120 VAC at 60 hertz. The Instrument must be capable of continued operation at a voltage of 80 percent of the 120 VAC.

**The Intoxilyzer 9000 meets and exceeds this specification.**

**The instrument will operate on a normal voltage of 120 VAC at 60 Hertz. Further, the instrument's power supply is rated for 90-240 VAC which allows operation at a voltage of less than 80 percent of the 120 VAC.**

The Instrument shall be equipped with an internal surge suppression device and be designed to assure that variations in external supply voltages will not affect the test results.

**The Intoxilyzer 9000 meets and exceeds this specification.**

**The Intoxilyzer is equipped with internal surge suppression devices, and is also fused to prevent damage to the instrument.**

**The instrument meets IEC/EN 61000-4-4 for transient/burst immunity and IEC/EN61000-4-5 for surge immunity.**



**Exhibit 1**

**REQUEST FOR QUOTATION  
CRFQ DPS1500000026 - Evidential Breath Alcohol Testing Instruments**

The Instrument must be capable of operating from 12 VDC power supplies either as is or with provided additional hardware.

**The Intoxilyzer 9000 meets this specification.**

**No additional hardware is required.**

The Instrument shall be designed to ensure that access to all adjustments is available to authorized personnel only.

**The Intoxilyzer 9000 meets this specification.**

**The instrument software can be configured for different levels of password-protected access to promote system and data security. Unlike older style instruments, that utilized mechanical means of adjustment, adjustments for the Intoxilyzer 9000 are made via the user-friendly graphical interface which can be access-restricted.**

The Instrument shall have all USB ports and connections on the exterior of the Instrument clearly labeled.

**The Intoxilyzer 9000 meets this specification.**

The Instrument model and serial number shall be labeled clearly on the exterior of the Instrument

**The Intoxilyzer 9000 meets this specification.**

**Unlike older style instruments with the serial number label found on the back panel, the Intoxilyzer 9000's serial number label is conveniently located on the side of the instrument as well as on the instrument's display making it easy for operators and technicians to view.**

The Instrument shall have a mechanism to store and secure internally (by lock and key) a dry gas standard container or have a mechanism for storing and securing an external dry gas standard.

**The Intoxilyzer 9000 meets this specification.**

**Exhibit 1**

**REQUEST FOR QUOTATION  
CRFQ DPS1500000026 - Evidential Breath Alcohol Testing Instruments**

**A gas delivery system is available for the Intoxilyzer 9000 utilizing a 67 liter refillable and/or non-refillable ethanol gas standard. The locking gas delivery system is an attached accessory to the Intoxilyzer 9000 and is easily capable of being transported while attached to the instrument. The attached accessory separates the pressurized gas standard from the compartment containing the analytical systems.**

The instrument shall have the ability to monitor the internal gas PSI and generate an ongoing report via the database. The database will generate custom reports detailing gas standards PSI by location and alert database operator when gas standard is near empty.

**The Intoxilyzer 9000 meets and exceeds this specification.**

**The Intoxilyzer 9000 continuously monitors the gas cylinder pressure (PSI). In real-time, once the gas cylinder pressure reaches 50 PSI, the instrument display will continuously warn the user the gas cylinder pressure is low. At 25 PSI, the instrument's display will indicate the pressure is too low for a test to be performed. Should WV desire, CMI can disable the instrument when the gas cylinder pressure is too low and remain disabled until a new gas cylinder is installed. This disable function ensures a subject test is not performed without the required calibration checks. In addition to this continuous monitoring, if the Intoxilyzer 9000 is connected to a modem or a network (Ethernet), instantaneous information regarding pressure may be provided utilizing communication software (COBRA V5). Custom reports may be generated in COBRA V5 including a custom report indicating instrument location, and gas standard pressure at that location including an alert for cylinders at or below 50 PSI.**

The Instrument shall have an internal system for measuring and compensating for variations in barometric pressure whenever pressurized gas standards are used.

**The Intoxilyzer 9000 meets this specification with an atmospheric pressure sensor calibrated to NIST standards, by our ISO 17025 compliant and certified calibration laboratory.**

**Exhibit 1**

**REQUEST FOR QUOTATION  
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The instruments shall produce an alcohol concentration result that has been adjusted based upon the prevailing barometric pressure.

**The Intoxilyzer 9000 meets this specification.**

The Instrument shall be capable of having a wet bath alcohol simulator or an internal pressurized dry gas standard continuously attached, requiring no connection or disconnection during a test sequence.

**The Intoxilyzer 9000 meets and exceeds this specification.**

**A gas delivery system is available for the Intoxilyzer 9000 utilizing a 67 liter refillable and/or non-refillable ethanol gas standard. The gas delivery system is an attached accessory to the Intoxilyzer 9000 and is easily capable of being transported while attached to the instrument. The attached accessory separates the pressurized gas standard from the compartment containing the analytical systems. Additionally, the inlet port for the ethanol gas standard is separate from the port used for a wet bath simulator, allowing both to be attached at the same time. A second inlet port for a dry gas standard is an available option. The manner in which the instrument utilizes the external standard in the test sequence can be configured as previously specified or multiple tests can be performed.**

If the Instrument contains a fuel cell, the fuel cell must be warranted for two years

**The Intoxilyzer 9000 does not contain a fuel cell.**

The infrared source should be rated for no less than 18,000 hours.

**The Intoxilyzer 9000 meets and exceeds this specification.**

**The instrument's infrared source is rated for over 84,000 hours (9.5 years).**

Heaters must have the capability of being monitored for correct temperature control and shut down for safety

**The Intoxilyzer 9000 meets this specification.**

**Exhibit 1**

**REQUEST FOR QUOTATION**  
**CRFQ DPS1500000026 - Evidential Breath Alcohol Testing Instruments**

**Both the instrument's breath hose and sample chamber temperatures are monitored to ensure the accuracy and integrity of a test. The instrument contains secondary safety circuitry for the shutdown of these heaters if necessary.**

**Centralized Database and Communications Software**

The vendor shall provide, as part of the entire package, a computer program capable of communicating with the individual instruments and enable the instrument to call host PC via Ethernet.

**CMI, Inc. agrees to supply the communication software COBRA V5 which meets and exceeds the above specification.**

**COBRA V5 communicates with the Intoxilyzer 9000 using Ethernet, modem, and direct connection. When using a modem or Ethernet, COBRA V5 can simultaneously connect to multiple instruments. Additionally the instrument can be actively monitored and virtually all functions can be performed.**

**Communication transfers records and other information from an instrument to COBRA V5 where both are located inside a local network. The Intoxilyzer 9000 is also capable of creating a Virtual Private Network (VPN) connection into a remote network, provided the connection is supported by the network, without needing secondary hardware to create the VPN connection. This allows the Intoxilyzer to be placed anywhere there is an Ethernet connection whether it is on a local network or on the internet and still provide secure connectivity to the COBRA V5 database management software. The Intoxilyzer 9000 is the only instrument capable of VPN connectivity without external hardware.**

**The Intoxilyzer 9000 also has the ability to initiate communications with COBRA V5 and download any new test records and receive any new updates that are necessary.**

**In addition, the Intoxilyzer 9000 has the ability to also transfer all records to a USB "flash" drive to be uploaded by COBRA V5 and placed in the database for storage and reporting. The "flash drive" may also be used to securely update the instrument's software and configuration.**

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**REQUEST FOR QUOTATION  
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The communications program shall have sufficient safeguards to prevent unauthorized access to the instruments, the test data stored in the instruments and the communication program.

**Both the Intoxilyzer 9000 and COBRA V5 meet this specification.**

**Multi-level passwords control user access to the instrument and COBRA V5 software. Cyclic redundancy check (CRC) checksum protection and NIST standard AES-256 data encryption are also used.**

The associated computer based communication program shall be able to operate on IBM compatible. The program shall be compatible Microsoft 7®, Microsoft Windows Vista®, and Microsoft Windows 2003® server.

**COBRA V5 meets and exceeds this specification.**

**COBRA V5 is also compatible with Windows Server 2008 and above, Windows XP, Windows 7 (32 bit and 64 bit), and Windows 8.**

The program shall allow the retrieval of stored test data through automatic and unattended polling of instruments as well as manual polling of individual instruments.

**COBRA V5 meets and exceeds this specification by allow bi-directional polling initiated by the PC or Intoxilyzer 9000. Unlike other communications programs, COBRA V5 can simultaneously connect to multiple instruments.**

The program shall allow trained West Virginia State Police personnel to perform diagnostic, troubleshooting, remote calibration checking instrument certification checks on individual instruments, and remotely disable and re-enable subject testing on instruments if needed.

**COBRA V5 meets and exceeds this specification.**

**COBRA V5 will contain remote test functions available to use which include, Diagnostic Test, Dry Gas/Wet Bath/ITP Calibration Checks, and Enable/Disable functions. Additionally the instrument can be actively monitored and virtually all functions can be performed.**

**Exhibit 1**

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**Note, this remote monitoring can be used for both troubleshooting as well as a training tool.**

If batch communications need to be interrupted to poll a single instrument, batch communications should be able to resume at the point it was interrupted.

**COBRA V5 meets this specification.**

Test data that is transmitted from the breath test instrument to the computer based database program must be able to be verified for its integrity.

**COBRA V5 meets this specification by using a CRC Checksum to ensure data integrity.**

While performing single instrument communications, PC operator shall be able to sort by serial number or location.

**COBRA V5 meets and exceeds this specification.**

**The operator may sort data via serial number, location, connection type (Ethernet, modem, direct), and status.**

Database and. query results shall be exportable to multiple standard file formats, e.g. comma and quote delimited, dbase, Access etc.

**COBRA V5 meets this specification.**

**The COBRA V5 Data Management software is based upon the Microsoft SQL Server and supports the ability to export data into Microsoft Excel or other similar formats and is compatible with modern Information Management Systems utilizing Microsoft SQL Server.**

**Spare Parts/Supplies**

Initially, the vendor shall provide the West Virginia State Police with five (5) sets of spare parts. A list of spare parts necessary for maintaining the instrument shall be submitted with the bid.

**CMI, Inc. agrees with this requirement.**

**Exhibit 1**

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A set of spare parts shall consist of an assortment of components, mutually agreed upon by the vendor and the supervisor of the Breath Alcohol Section.

**CMI, Inc. agrees with this requirement.**

**Training**

The vendor shall provide a forty hour training course at the manufacturer's location at no cost to the West Virginia State Police for six personnel of the agency.

**CMI, Inc. agrees with this requirement.**

Training will include engineering, production, maintenance, calibration and repair of the proposed instrument. Data management training shall also be included. The dates will be determined after the bid award. The vendor will be required to provide a per person cost for training additional personnel at a later date. The West Virginia State Police will pay the cost of travel and lodging.

**CMI, Inc. agrees with this requirement.**

The successful vendor shall issue a certificate to each individual who completes the course.

**CMI, Inc. agrees with this requirement.**

The successful bidder shall issue a certificate from the manufacturer approving the Breath Alcohol Section of the West Virginia State Police as an authorized service, repair and recalibration center upon satisfactory completion of the factory training course.

**CMI, Inc. agrees with this requirement.**

**3.1.2 Contract Item #2 —Dry Gas Refill, Intoximeter #22-9906-00 Or Equal**

3.1.2.1 Contract Item #2 must be compatible with Intoximeter EC/IR II or equal

**CMI, Inc. can supply ethanol dry gas standards compatible with the Intoxilyzer 9000 and/or the EC/IR II.**

**Exhibit 1**

**REQUEST FOR QUOTATION  
CRFQ DPS1500000026 - Evidential Breath Alcohol Testing Instruments**

**The Intoxilyzer 9000 utilizes a 67L ethanol standard. CMI can also supply a 108L cylinder for use with the EC/IR II.**

**The 67L cylinders can be refillable or non-refillable. The 108L cylinders are refillable.**

**3.1.3 Contract Item #3 — Mouthpieces**

3.1.3.1 Contract Item #3 must be compatible with Intoximeter EC/IR II or equal

**CMI, Inc. can supply mouthpieces compatible with the Intoxilyzer 9000. Note, should WV desire, the Intoxilyzer 9000 can be fitted with an adapter to accommodate the EC/IR II mouthpiece.**

**The Intoxilyzer 9000 requires a mouthpiece for each subject test. The mouthpieces supplied by CMI, Inc. are individually wrapped.**

**3.1.4 Contract Item #4 — Printer Paper**

3.1.4.1 Contract Item #4 must be compatible with Intoximeter EC/IR II or equal

**The Intoxilyzer 9000 utilizes a 3 inch wide thermal printer paper roll. The thermal paper has a 7 year life expectancy if proper storage conditions are met.**

**3.1.5 Contract Item #5 — Training**

Training shall include engineering, production, maintenance, calibration and repair of the proposed instrument. Data management training shall also be included. A per person cost to be listed for training additional personnel at a later date (does not include the six (6) personnel being trained at contract award). This shall be a 40 hour training course to be conducted at the manufacturer's location. The vendor shall issue a certificate to each individual who completes the course.

**CMI, Inc. agrees to the above requirement.**



**Exhibit 1**

**REQUEST FOR QUOTATION  
CRFQ DPS1500000026 - Evidential Breath Alcohol Testing Instruments**

**8 MISCELLANEOUS:**

- 8.4 Contract Manager: During its performance of this Contract, Vendor must designate and maintain a primary contract manager responsible for overseeing Vendor's responsibilities under this Contract. The Contract manager must be available during normal business hours to address any customer service or other issues related to this Contract. Vendor should list its Contract manager and his or her contact information below.

Contract Manager:	Pamela J. Hagan
Telephone Number:	270-685-6294
Fax Number:	270-685-6678
Email Address:	<a href="mailto:pjhagan@alcoholtest.com">pjhagan@alcoholtest.com</a>

**Exhibit 1**

**REQUEST FOR QUOTATION**  
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**3. GENERAL REQUIREMENTS:**

- 3.1 Contract Items and Mandatory Requirements:** Vendor shall provide Agency with the Contract Items listed below on an open-end and continuing basis. Contract Items must meet or exceed the mandatory requirements as shown below.

This document contains CMI, Inc.'s response as to how the Intoxilyzer 9000 meets and/or in many instances exceeds the requirements specified in "3. General Requirements". This document also contains a response to "8.4 Contract Manager". It is CMI, Inc.'s intent to convey a fully compliant bid response. The response is intended to be descriptive and convey compliance without simply restating the requirement. CMI, Inc.'s responses to the referenced sections may be found in blue. CMI, Inc. understands all other sections of the Specification document (1, 2, 4, 5, 6, 7, and 8) not restated here in Exhibit 1.

- 3.1.1 Contract Item #1 — Evidential Breath Alcohol Testing Instrument equipped with the ethanol dry gas standards Intoximeter EC/IR II or equal**

CMI, Inc., utilizes advanced, state of the art pulsed infrared technology to manufacture the only multi-wavelength, pulsed IR breath alcohol measurement instruments on the market today. Our newest instrument, the Intoxilyzer 9000 analyzes the sample at four (4) different wavelengths – three (3) wavelengths in the 9  $\mu$ M range and one (1) wavelength in the 8  $\mu$ M range. The pulsed IR source is manufactured using the latest Micro-Electro-Mechanical-Systems (MEMS) technology. Combined, the system analyzes the sample without utilizing moving parts in the analytical process providing a very reliable system with exceptional up-time. The Intoxilyzer 9000 is unencumbered by the limitations of a fuel cell and its mechanically moving sampling system.

The complete Intoxilyzer 9000 package offered to the State of West Virginia may be found in Exhibit 2.

- 3.1.1.1** Must be compatible with existing external printers (Okidata B4600), E-Seek 200 Card Readers and hardware to operate these instruments.

**The Intoxilyzer 9000 meets this specification.**

Prior to bid award and at the discretion of the WV State Police, the state may require any and all bidders to provide one or more similar instruments for the purpose of testing under conditions in which the instrument will be operated.

**Exhibit 1**

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**CMI, Inc. agrees with this requirement and will submit the required instruments for testing when advised by WV State Police.**

All equipment will be new, and of the design which was evaluated or approved by the WV State Police

**CMI, Inc. agrees to this requirement.**

The Instrument shall be approved by the United States Department of Transportation, National Highway Traffic Safety Administration and appear on "The Conforming Products List for Evidence Breath Testers and the West Virginia Bureau of Public Health.

**The Intoxilyzer 9000 was approved by NHTSA in 2012. The approval letter is included in the submission information as Exhibit 3.**

The Instrument shall have the necessary approval of the The Federal Communications Commission.

**The Intoxilyzer 9000 meets and exceeds this specification.**

**The Intoxilyzer 9000 meets the following Federal Communications Commission (FCC) specifications - Part 15 Class B and Part 68. In addition, the instrument has been Underwriters Laboratories (UL) approved.**

The instrument specifications must be equal to or exceed the specifications of the approved Intoximeters EC/IR II.

**The Intoxilyzer 9000 meets and exceeds the specifications of the Intoximeter EC/IR II.**

**Listed below, please find a summary of the key features/benefits found only with the Intoxilyzer 9000. Please note, Exhibit 4 – Intoxilyzer 9000 brochure and Exhibit 5 – Intoxilyzer 9000 Detailed Specification have been included with this bid submission.**

- **Enhanced Operating System: The Intoxilyzer 9000 runs on the Microsoft Windows Embedded CE (WinCE) 6.0 R3 operating system which provides a high quality graphical user interface and a flexible platform for expanding system features.**

**Exhibit 1**

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- **Extended Ethanol Measurement Range: 0.000 – 0.650 g/210L.**  
This measurement range can be reduced if customer desired.
- **Faster Response Time After Subject Sample: Immediate – subject sample results are available immediately after sample acceptance, independent of sample concentration.**
- **Extended Operational Temperature Range: 0°C to 40°C.**
- **Enhanced Display – 7”, color-graphic touch-screen, 800 x 480 pixel resolution**
- **Increased Keyboard Options: On-Screen, External USB, or Wireless**
- **Versatile Instrument Pedestal: Allows the operator to adjust the instrument position for optimal access and view of the display. If needed, this same pedestal serves as a wall mount thus creating a space-saving testing environment.**
- **Enhanced Audible Indicators – Single and multi-tone signals can be utilized via the software to denote the operation and testing status. Embedded vocal phrases and/or instructions can also be utilized.**
- **Enhanced Connectivity – 4 USB Device ports, 1 USB Comms Port, 1 Ethernet Port, 1 Analog Modem Port, and 1 RS232 Port are standard to the instrument. The number of USB ports can be expanded if customer desired. All ports are contained within the instrument.**
- **Increased Memory – Standard memory capacity is 512 megabytes (MB) capable of storing up to 10,000 test records and is expandable to 32,000 megabytes (MB) aka 32 gigabytes (GB) via an internal socketed SD card.**
- **Enhanced Diagnostic Routines – An Internal Test Procedure (ITP) may be added to the Diagnostic Test protocol further increasing the integrity of the subject test. The ITP checks the system all the way from the IR source through the IR detection electronics and finally through the stored calibration to ensure the instrument**

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**calibration is sound, all without the need of external standards dry or wet.**

- **Increased Mobile Testing – An internal 12VDC battery may be installed in the instrument allowing testing to occur away from any external power source, i.e. wall outlet or 12VDC supply.**

The successful bidder shall notify the WV State Police of any design modification, internal or external, made by the manufacturer for a period of five years from the date of acceptance.

**CMI, Inc. agrees to this requirement.**

The successful bidder must supply expert testimony to establish instrument credibility on up to five occasions in West Virginia courts of law upon the request of the West Virginia State Police.

**CMI, Inc. agrees to this requirement.**

**Warranty**

All Equipment will be covered by a warranty against defective materials, workmanship and performance for a period of two years from the date of initial delivery. Bidder agrees to furnish, without cost to the WV State Police, all labor, materials and transportation costs during the warranty period.

**CMI, Inc. agrees to this requirement.**

All defective equipment purchased shall be repaired and returned within thirty days. Should an instrument require three or more major repairs during the initial twelve month period of operation it will be considered a defective instrument and be replaced free of charge.

**CMI, Inc. agrees to this requirement.**

All software for both instrument operation and instrument communication shall be warranted against deficiencies in execution and operation.

**CMI, Inc. agrees to this requirement.**

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**Documentation of Printed Material**

The successful bidder will provide all the latest schematic circuit diagrams, one set of engineering drawings, and all other documentation necessary for repair, maintenance, operation and troubleshooting of the instrument.

**CMI, Inc. agrees to this requirement.**

The bidder will provide a parts list with the current replacement costs for each component.

**As per Addendum No. 1 CRFQ – DPS1500000026 Q4:/A4, CMI agrees to supply a parts list if chosen as the successful bidder.**

The vendor shall provide authorization to copy material from the instrument operating and technical manuals for use in training classes.

**CMI, Inc. agrees to this requirement.**

The vendor shall provide copies of maintenance manuals, technical manuals, operating manuals and all documentation that covers instrument maintenance, operation, troubleshooting and service procedures at no cost to the WV State Police.

**CMI, Inc. agrees to this requirement.**

**Software**

The Instrument shall be inherently non-responsive to acetone or shall have the capabilities to detect acetone as an interferent and subtract from the final analysis.

**The Intoxilyzer 9000 meets this specification.**

**The Intoxilyzer 9000 is inherently non-responsive to acetone by design. Additionally, the Intoxilyzer 9000 can detect interferents independent of influence of the breath test readings. An example, if a person had not been drinking and therefore had a breath test reading of 0.000 g/210L, but did have a severe medical condition, unlike any other breath testing instrument, the Intoxilyzer 9000 could indicate that the person had an interferent on his breath which**

**Exhibit 1**

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**in most instances would prompt the operator to seek medical attention.**

**Note, if customer desired, this functionality can be disabled.**

The Instrument is capable of aborting a test when the Instrument has determined the presence of an interfering substance. The printed test record shall indicate when an interfering substance was detected.

**The Intoxilyzer 9000 meets this specification.**

**Utilizing four (4) measurement wavelengths, the Intoxilyzer 9000 provides exceptional specificity to ethanol. The Intoxilyzer 9000 will either detect and indicate that an interferent was present in the sample or provide an unaffected result as required. Of note, since the Intoxilyzer 9000 is an infrared-only system, lingering effects of interferents on the fuel cell, is not an issue.**

The program shall be able to maintain and record the date and time and adjust for daylight savings time automatically. The Instrument must also be able to correctly recognize leap years and correctly treat these events in all calculations, databases and calendars that use or produce date values.

**The Intoxilyzer 9000 meets this specification.**

**In addition, the Intoxilyzer 9000 can also be linked via COBRA V5 to a Network Time Protocol (NTP) server allowing the instrument to obtain the exact time regularly.**

The Instrument shall store test data in memory so that a remote communications program supplied by the vendor can retrieve it.

**The Intoxilyzer 9000 meets and exceeds this specification.**

**COBRA V5, a remote communications and data management program, is used to retrieve instrument data. The Intoxilyzer 9000 is capable of secure Ethernet communications with the COBRA V5 data management software using NIST standard AES-256 encryption. CMI, Inc. agrees to supply COBRA V5.**

**Communication transfers records and other information**

**Exhibit 1**

**REQUEST FOR QUOTATION  
CRFQ DPS1500000026 - Evidential Breath Alcohol Testing Instruments**

from an instrument to COBRA V5 where both are located inside a local network. The Intoxilyzer 9000 is also capable of creating a Virtual Private Network (VPN) connection into a remote network, provided the connection is supported by the network, without needing secondary hardware to create the VPN connection. This allows the Intoxilyzer to be placed anywhere there is an Ethernet connection whether it is on a local network or on the internet and still provide secure connectivity to the COBRA V5 database management software. The Intoxilyzer 9000 is the only instrument capable of VPN connectivity without external hardware.

The program shall be capable of automatically producing single or multiple printed records of the test information upon the completion of the test sequence

**The Intoxilyzer 9000 meets and exceeds this specification.**

Using the internal printer, the Intoxilyzer 9000 can print single or multiple copies of the test sequence. The printer roll used by the instrument is a 3" wide roll allowing for larger print as well as increased information across the printout.

Utilizing "forms technology", the Intoxilyzer 9000, when connected to an external laser printer, may print the required forms necessary for a DUI arrest packet. The instrument is capable of storing in memory the required forms which are populated via the data entry questions. The populated required forms are printed once the subject test is complete. This same "forms technology" may be used for instrument certification i.e. calibration checks and instrument installation/field protocols, etc. Again, all maintenance/certification forms can be populated by the instrument during the specific testing sequence. Each form is printed out once the test sequence is complete. The Intoxilyzer 9000's "forms technology" eliminates completing forms manually thus saves time for both law enforcement personnel and technicians. Note, should the customer desire, all forms can include watermarks or state seals, etc.

The Instrument shall have a software mode, which allows maintenance and repair technicians to review the condition of key instrument components.

**The Intoxilyzer 9000 meets and exceeds this specification.**



**Exhibit 1**

**REQUEST FOR QUOTATION  
CRFQ DPS1500000026 - Evidential Breath Alcohol Testing Instruments**

**Repair/maintenance technicians may access via password a menu level showing real-time diagnostic monitoring of key instrument components.**

**This same real-time diagnostic monitoring may be performed via the technician using COBRA V5. This remote monitoring allows a technician to troubleshoot and correct an instrument situation without the need of traveling to the instrument site.**

The successful bidder will meet with the West Virginia State Police to set up instrument parameters and software requirements prior to filing any orders.

**CMI, Inc. agrees to this requirement.**

The successful bidder will provide one software update after delivery of units, free of charge, to correct any problems, deficiencies, or oversights found with the instruments internal software.

**CMI, Inc. agrees to this requirement.**

The software program shall allow the instrument to automatically perform a minimal test sequence with state statutes and administrative rule. These include:

Air Blank  
Calibration Check  
Air Blank  
Subject Test  
Air Blank  
Calibration Check  
Air Blank

**The Intoxilyzer 9000 meets this specification.**

**Analytical Requirements**

The instrument must utilize the principle of infrared absorption, or fuel cell Electro-chemical conversion or the combination of both to analyze breath alcohol concentrations and report analytical results as grams of alcohol per 210 liters of breath.

**Exhibit 1**

**REQUEST FOR QUOTATION**  
**CRFQ DPS1500000026 - Evidential Breath Alcohol Testing Instruments**

CMI, Inc., utilizes advanced, state of the art pulsed infrared technology to manufacture the only multi-wavelength, pulsed IR breath alcohol measurement instruments on the market today. Our newest instrument, the Intoxilyzer 9000 analyzes the sample at four (4) different wavelengths – three (3) wavelengths in the 9  $\mu$ M range and one (1) wavelength in the 8  $\mu$ M range. The pulsed IR source is manufactured using the latest Micro-Electro-Mechanical-Systems (MEMS) technology. Combined, the system analyzes the sample without utilizing moving parts in the analytical process providing a very reliable system with exceptional up-time. The Intoxilyzer 9000 is unencumbered by the limitations of a fuel cell and its mechanically moving sampling system.

The Instrument shall be able to automatically perform system checks on its key components during a test sequence. If a malfunction is detected, the test shall be aborted and the nature of the malfunction printed on the test record.

**The Intoxilyzer 9000 meets this specification.**

The instrument automatically performs a Diagnostic Test upon warm up from a cold start or standby mode. In addition, the custom subject test protocol can be specified to include Diagnostic Tests before the subject test, after the subject test or both. When the Intoxilyzer 9000 performs a Diagnostic Test, the following items are checked:

Analytical Checksum	ADC
Voltage/Current	Analytical Status
Memory	Version Status
Real Time Clock	ITP (Optional)
Temperature Regulation	

**Exhibit 6, included with this bid submission, provides more detail regarding each of the above tests performed during a Diagnostic Test.**

During the test sequence, the Instrument must be capable of conducting an analysis of the ambient air prior to or as part of the subject test sequence. If this test does not demonstrate that the ambient air is free of alcohol, the test shall be aborted and the results reported in the test record.

**Exhibit 1**

**REQUEST FOR QUOTATION  
CRFQ DPS1500000026 - Evidential Breath Alcohol Testing Instruments**

**The Intoxilyzer 9000 meets this specification.**

An ambient air blank must be run that demonstrates that the ambient air in the sample chamber prior to the subject providing a breath is free of alcohol or any other interfering substance that would influence the determination of alcohol concentration

**The Intoxilyzer 9000 meets this specification.**

The Instrument shall be designed to analyze end expired, near alveolar breath and have evaluation criteria built into the instrument operation program to determine when the sample is essentially alveolar in composition.

**The Intoxilyzer 9000 meets this specification.**

**The Intoxilyzer 9000 utilizes an IR-based slope detect system to detect end expiratory breath which is not possible with the single point sampling system of the fuel cell and is less accurate with a lower resolution IR bench.**

The Instrument shall be able to detect, reject and print out a notation of any invalid breath sample including samples contaminated with residual mouth alcohol.

**The Intoxilyzer 9000 meets and exceeds this specification.**

**The Intoxilyzer 9000 software is capable of identifying 'mouth alcohol', as opposed to a deep lung sample by monitoring the evolution of the alcohol curve, a feature not possible with typical fuel cell systems.**

The Instrument must be able to detect insufficient breath samples and either automatically aborts these invalid samples or gives a breath content value and print the result obtained.

**The Intoxilyzer 9000 meets this specification.**

**If proper sample conditions are not met, the software can report a 'insufficient sample', notify the operator, and record the highest BrAC result obtained as defined by WV State Police.**

**Exhibit 1**

**REQUEST FOR QUOTATION  
CRFQ DPS1500000026 - Evidential Breath Alcohol Testing Instruments**

Each Instrument shall be able to automatically acquire and analyze a sample from a wet bath simulator or be able to automatically acquire and analyze a sample of pressurized ethanol dry gas standard.

**The Intoxilyzer 9000 meets and exceeds this specification.**

**A locking gas delivery system is available for the Intoxilyzer 9000 utilizing a 67 liter refillable and/or non-refillable ethanol gas standard. The gas delivery system is an attached accessory to the Intoxilyzer 9000 and is easily capable of being transported while attached to the instrument. The attached accessory separates the pressurized gas standard from the compartment containing the analytical systems thus the argument that a leak within the standard affected the breath test result is completely AVOIDED. Additionally, the inlet port for the ethanol gas standard is separate from the port used for a wet bath simulator, allowing both to be attached at the same time. A second dry gas standard inlet port is an available option. The manner in which the instrument utilizes the external standard in the test sequence can be configured as previously specified in this RFQ or multiple tests can be performed.**

The instrument shall be quantitative over a minimum range of 0.000 to 0.400 grams of alcohol per 210 liters of air and measure known vapor ethanol concentration within 3% or +/- 0.003 grams per 210 liters of air, whichever is greater.

**The Intoxilyzer 9000 meets and exceeds this requirement with a measurement range of 0.000 to 0.650 grams/210 liters with an accuracy of +/- 3% or 0.003 grams/210 liters, whichever is greater.**

The instrument must have safeguards to prevent condensation of alcohol and moisture during the sampling process.

**The Intoxilyzer 9000 meets this specification.**

**The Intoxilyzer 9000 utilizes a heated breath hose to eliminate condensation of the subject's breath within the breath hose. All internal plumbing throughout the sample chamber are temperature regulated and maintained to prevent condensation. If any of these temperatures are outside of operational parameters, the test would be inhibited.**

**Exhibit 1**

**REQUEST FOR QUOTATION  
CRFQ DPS1500000026 - Evidential Breath Alcohol Testing Instruments**

**Hardware**

The Instrument shall allow for operator data input through a keyboard, with the capability of using the existing bar code reader, external printers and must be USB compatible.

**The Intoxilyzer 9000 meets and exceeds this specification.**

**The Intoxilyzer 9000 can connect to external keyboards through available USB device ports. The Intoxilyzer 9000 defaults to an integrated on screen “touch” keypad if the external keyboard is disconnected. Any number of currently available keyboards on the market can be used with the Intoxilyzer 9000. Certain wireless keyboards are also compatible with the Intoxilyzer 9000 and can be identified upon request.**

**The Intoxilyzer 9000 can interface with any number of USB printers currently on the market including the Okidata 4600.**

**The Intoxilyzer 9000 complies as it is compatible with the E-Seek 200 card reader.**

Each Instrument shall be equipped with Ethernet capability

**The Intoxilyzer 9000 meets this specification.**

The instrument must have a minimum of 1.54 Mbytes/4000 plus test data storage.

**The Intoxilyzer 9000 meets and exceeds this specification.**

**The Intoxilyzer 9000 will have a minimum storage of approximately 8,512 megabytes (8GB)/30,000 plus test data storage. This memory is expandable to 32 gigabytes (GB).**

The Instrument must come with manufacturer approved mouthpieces that are individually wrapped. The mouthpiece or the instrument must have a one way fast seating internal check valve

**The Intoxilyzer 9000 meets and exceeds this specification.**

**Exhibit 1**

**REQUEST FOR QUOTATION  
CRFQ DPS1500000026 - Evidential Breath Alcohol Testing Instruments**

**The instrument can utilize several available mouthpieces (with and without check valves) and can easily be adapted to accept the EC/IR II mouthpiece.**

**The Intoxilyzer 9000 also meets this specification by having the required internal check valve.**

The Instrument must be capable of operating in a temperature range from 10° centigrade to 40° centigrade.

**The Intoxilyzer 9000 meets and exceeds this specification.**

**The operating temperature for the Intoxilyzer 9000 is 0° to 40° centigrade.**

The Instrument must be capable of operating at a relative humidity range from 10% to 90% relative humidity.

**The Intoxilyzer 9000 meets and exceeds this specification.**

**The instrument may be operated in an environment with a relative humidity range of 10% to 100% RH, non-condensing. This allows the instrument to be operated in wider environmental conditions.**

**For example, the above bid specification does not allow the instrument to be operated outside under a shelter while it is raining. The Intoxilyzer 9000 can operate in such conditions.**

The Instrument's case construction should be of a durable aluminum machined or welded sheet metal or if outer case is a material other than metal, the inner surface must be coated with a metallic material to shield against Radio Frequency Interference (RFI)

**The Intoxilyzer 9000 complies with this requirement by both metal shielding the analytical section inside the instrument cover and in the case of an exceeding dense RFI field it also has the capability of warning the operator and inhibiting a test in those extreme situations. CMI can provide supporting documentation regarding the Intoxilyzer 9000's impermeability to RFI.**

**Exhibit 1**

**REQUEST FOR QUOTATION  
CRFQ DPS1500000026 - Evidential Breath Alcohol Testing Instruments**

The Instrument shall be supplied with an internal thermal printer capable of producing multiple copies of a test record upon completion of the test sequence.

**The Intoxilyzer 9000 meets this specification.**

**Unlike instruments that use a 2 ¼ inch wide roll of paper, the Intoxilyzer 9000's internal thermal printer uses a 3 inch wide paper roll allowing more information to be contained on the printout and in a larger size print. The thermal paper has a 7 year life expectancy if proper storage conditions are met.**

The Instrument shall be capable of printing to an external printer.

**The Intoxilyzer 9000 meets this specification.**

**The instrument can interface with any number of USB printers currently on the market including the Okidata B4600.**

The Instrument shall be designed to operate on a normal voltage of 120 VAC at 60 hertz. The Instrument must be capable of continued operation at a voltage of 80 percent of the 120 VAC.

**The Intoxilyzer 9000 meets and exceeds this specification.**

**The instrument will operate on a normal voltage of 120 VAC at 60 Hertz. Further, the instrument's power supply is rated for 90-240 VAC which allows operation at a voltage of less than 80 percent of the 120 VAC.**

The Instrument shall be equipped with an internal surge suppression device and be designed to assure that variations in external supply voltages will not affect the test results.

**The Intoxilyzer 9000 meets and exceeds this specification.**

**The Intoxilyzer is equipped with internal surge suppression devices, and is also fused to prevent damage to the instrument.**

**The instrument meets IEC/EN 61000-4-4 for transient/burst immunity and IEC/EN61000-4-5 for surge immunity.**

**Exhibit 1**

**REQUEST FOR QUOTATION  
CRFQ DPS1500000026 - Evidential Breath Alcohol Testing Instruments**

The Instrument must be capable of operating from 12 VDC power supplies either as is or with provided additional hardware.

**The Intoxilyzer 9000 meets this specification.**

**No additional hardware is required.**

The Instrument shall be designed to ensure that access to all adjustments is available to authorized personnel only.

**The Intoxilyzer 9000 meets this specification.**

**The instrument software can be configured for different levels of password-protected access to promote system and data security. Unlike older style instruments, that utilized mechanical means of adjustment, adjustments for the Intoxilyzer 9000 are made via the user-friendly graphical interface which can be access-restricted.**

The Instrument shall have all USB ports and connections on the exterior of the Instrument clearly labeled.

**The Intoxilyzer 9000 meets this specification.**

The Instrument model and serial number shall be labeled clearly on the exterior of the Instrument

**The Intoxilyzer 9000 meets this specification.**

**Unlike older style instruments with the serial number label found on the back panel, the Intoxilyzer 9000's serial number label is conveniently located on the side of the instrument as well as on the instrument's display making it easy for operators and technicians to view.**

The Instrument shall have a mechanism to store and secure internally (by lock and key) a dry gas standard container or have a mechanism for storing and securing an external dry gas standard.

**The Intoxilyzer 9000 meets this specification.**



**Exhibit 1**

**REQUEST FOR QUOTATION**  
**CRFQ DPS1500000026 - Evidential Breath Alcohol Testing Instruments**

**A gas delivery system is available for the Intoxilyzer 9000 utilizing a 67 liter refillable and/or non-refillable ethanol gas standard. The locking gas delivery system is an attached accessory to the Intoxilyzer 9000 and is easily capable of being transported while attached to the instrument. The attached accessory separates the pressurized gas standard from the compartment containing the analytical systems.**

The instrument shall have the ability to monitor the internal gas PSI and generate an ongoing report via the database. The database will generate custom reports detailing gas standards PSI by location and alert database operator when gas standard is near empty.

**The Intoxilyzer 9000 meets and exceeds this specification.**

**The Intoxilyzer 9000 continuously monitors the gas cylinder pressure (PSI). In real-time, once the gas cylinder pressure reaches 50 PSI, the instrument display will continuously warn the user the gas cylinder pressure is low. At 25 PSI, the instrument's display will indicate the pressure is too low for a test to be performed. Should WV desire, CMI can disable the instrument when the gas cylinder pressure is too low and remain disabled until a new gas cylinder is installed. This disable function ensures a subject test is not performed without the required calibration checks. In addition to this continuous monitoring, if the Intoxilyzer 9000 is connected to a modem or a network (Ethernet), instantaneous information regarding pressure may be provided utilizing communication software (COBRA V5). Custom reports may be generated in COBRA V5 including a custom report indicating instrument location, and gas standard pressure at that location including an alert for cylinders at or below 50 PSI.**

The Instrument shall have an internal system for measuring and compensating for variations in barometric pressure whenever pressurized gas standards are used.

**The Intoxilyzer 9000 meets this specification with an atmospheric pressure sensor calibrated to NIST standards, by our ISO 17025 compliant and certified calibration laboratory.**

**Exhibit 1**

**REQUEST FOR QUOTATION  
CRFQ DPS1500000026 - Evidential Breath Alcohol Testing Instruments**

The instruments shall produce an alcohol concentration result that has been adjusted based upon the prevailing barometric pressure.

**The Intoxilyzer 9000 meets this specification.**

The Instrument shall be capable of having a wet bath alcohol simulator or an internal pressurized dry gas standard continuously attached, requiring no connection or disconnection during a test sequence.

**The Intoxilyzer 9000 meets and exceeds this specification.**

**A gas delivery system is available for the Intoxilyzer 9000 utilizing a 67 liter refillable and/or non-refillable ethanol gas standard. The gas delivery system is an attached accessory to the Intoxilyzer 9000 and is easily capable of being transported while attached to the instrument. The attached accessory separates the pressurized gas standard from the compartment containing the analytical systems. Additionally, the inlet port for the ethanol gas standard is separate from the port used for a wet bath simulator, allowing both to be attached at the same time. A second inlet port for a dry gas standard is an available option. The manner in which the instrument utilizes the external standard in the test sequence can be configured as previously specified or multiple tests can be performed.**

If the Instrument contains a fuel cell, the fuel cell must be warranted for two years

**The Intoxilyzer 9000 does not contain a fuel cell.**

The infrared source should be rated for no less than 18,000 hours.

**The Intoxilyzer 9000 meets and exceeds this specification.**

**The instrument's infrared source is rated for over 84,000 hours (9.5 years).**

Heaters must have the capability of being monitored for correct temperature control and shut down for safety

**The Intoxilyzer 9000 meets this specification.**

**Exhibit 1**

**REQUEST FOR QUOTATION**  
**CRFQ DPS1500000026 - Evidential Breath Alcohol Testing Instruments**

**Both the instrument's breath hose and sample chamber temperatures are monitored to ensure the accuracy and integrity of a test. The instrument contains secondary safety circuitry for the shutdown of these heaters if necessary.**

**Centralized Database and Communications Software**

The vendor shall provide, as part of the entire package, a computer program capable of communicating with the individual instruments and enable the instrument to call host PC via Ethernet.

**CMI, Inc. agrees to supply the communication software COBRA V5 which meets and exceeds the above specification.**

**COBRA V5 communicates with the Intoxilyzer 9000 using Ethernet, modem, and direct connection. When using a modem or Ethernet, COBRA V5 can simultaneously connect to multiple instruments. Additionally the instrument can be actively monitored and virtually all functions can be performed.**

**Communication transfers records and other information from an instrument to COBRA V5 where both are located inside a local network. The Intoxilyzer 9000 is also capable of creating a Virtual Private Network (VPN) connection into a remote network, provided the connection is supported by the network, without needing secondary hardware to create the VPN connection. This allows the Intoxilyzer to be placed anywhere there is an Ethernet connection whether it is on a local network or on the internet and still provide secure connectivity to the COBRA V5 database management software. The Intoxilyzer 9000 is the only instrument capable of VPN connectivity without external hardware.**

**The Intoxilyzer 9000 also has the ability to initiate communications with COBRA V5 and download any new test records and receive any new updates that are necessary.**

**In addition, the Intoxilyzer 9000 has the ability to also transfer all records to a USB "flash" drive to be uploaded by COBRA V5 and placed in the database for storage and reporting. The "flash drive" may also be used to securely update the instrument's software and configuration.**

**Exhibit 1**

**REQUEST FOR QUOTATION  
CRFQ DPS1500000026 - Evidential Breath Alcohol Testing Instruments**

The communications program shall have sufficient safeguards to prevent unauthorized access to the instruments, the test data stored in the instruments and the communication program.

**Both the Intoxilyzer 9000 and COBRA V5 meet this specification.**

**Multi-level passwords control user access to the instrument and COBRA V5 software. Cyclic redundancy check (CRC) checksum protection and NIST standard AES-256 data encryption are also used.**

The associated computer based communication program shall be able to operate on IBM compatible. The program shall be compatible Microsoft 7®, Microsoft Windows Vista®, and Microsoft Windows 2003® server.

**COBRA V5 meets and exceeds this specification.**

**COBRA V5 is also compatible with Windows Server 2008 and above, Windows XP, Windows 7 (32 bit and 64 bit), and Windows 8.**

The program shall allow the retrieval of stored test data through automatic and unattended polling of instruments as well as manual polling of individual instruments.

**COBRA V5 meets and exceeds this specification by allow bi-directional polling initiated by the PC or Intoxilyzer 9000. Unlike other communications programs, COBRA V5 can simultaneously connect to multiple instruments.**

The program shall allow trained West Virginia State Police personnel to perform diagnostic, troubleshooting, remote calibration checking instrument certification checks on individual instruments, and remotely disable and re-enable subject testing on instruments if needed.

**COBRA V5 meets and exceeds this specification.**

**COBRA V5 will contain remote test functions available to use which include, Diagnostic Test, Dry Gas/Wet Bath/ITP Calibration Checks, and Enable/Disable functions. Additionally the instrument can be actively monitored and virtually all functions can be performed.**

**Exhibit 1**

**REQUEST FOR QUOTATION  
CRFQ DPS1500000026 - Evidential Breath Alcohol Testing Instruments**

**Note, this remote monitoring can be used for both troubleshooting as well as a training tool.**

If batch communications need to be interrupted to poll a single instrument, batch communications should be able to resume at the point it was interrupted.

**COBRA V5 meets this specification.**

Test data that is transmitted from the breath test instrument to the computer based database program must be able to be verified for its integrity.

**COBRA V5 meets this specification by using a CRC Checksum to ensure data integrity.**

While performing single instrument communications, PC operator shall be able to sort by serial number or location.

**COBRA V5 meets and exceeds this specification.**

**The operator may sort data via serial number, location, connection type (Ethernet, modem, direct), and status.**

Database and. query results shall be exportable to multiple standard file formats, e.g. comma and quote delimited, dbase, Access etc.

**COBRA V5 meets this specification.**

**The COBRA V5 Data Management software is based upon the Microsoft SQL Server and supports the ability to export data into Microsoft Excel or other similar formats and is compatible with modern Information Management Systems utilizing Microsoft SQL Server.**

**Spare Parts/Supplies**

Initially, the vendor shall provide the West Virginia State Police with five (5) sets of spare parts. A list of spare parts necessary for maintaining the instrument shall be submitted with the bid.

**CMI, Inc. agrees with this requirement.**

**Exhibit 1**

**REQUEST FOR QUOTATION  
CRFQ DPS1500000026 - Evidential Breath Alcohol Testing Instruments**

A set of spare parts shall consist of an assortment of components, mutually agreed upon by the vendor and the supervisor of the Breath Alcohol Section.

**CMI, Inc. agrees with this requirement.**

**Training**

The vendor shall provide a forty hour training course at the manufacturer's location at no cost to the West Virginia State Police for six personnel of the agency.

**CMI, Inc. agrees with this requirement.**

Training will include engineering, production, maintenance, calibration and repair of the proposed instrument. Data management training shall also be included. The dates will be determined after the bid award. The vendor will be required to provide a per person cost for training additional personnel at a later date. The West Virginia State Police will pay the cost of travel and lodging.

**CMI, Inc. agrees with this requirement.**

The successful vendor shall issue a certificate to each individual who completes the course.

**CMI, Inc. agrees with this requirement.**

The successful bidder shall issue a certificate from the manufacturer approving the Breath Alcohol Section of the West Virginia State Police as an authorized service, repair and recalibration center upon satisfactory completion of the factory training course.

**CMI, Inc. agrees with this requirement.**

**3.1.2 Contract Item #2 —Dry Gas Refill, Intoximeter #22-9906-00 Or Equal**

3.1.2.1 Contract Item #2 must be compatible with Intoximeter EC/IR II or equal

**CMI, Inc. can supply ethanol dry gas standards compatible with the Intoxilyzer 9000 and/or the EC/IR II.**

**Exhibit 1**

**REQUEST FOR QUOTATION  
CRFQ DPS1500000026 - Evidential Breath Alcohol Testing Instruments**

**The Intoxilyzer 9000 utilizes a 67L ethanol standard. CMI can also supply a 108L cylinder for use with the EC/IR II.**

**The 67L cylinders can be refillable or non-refillable. The 108L cylinders are refillable.**

**3.1.3 Contract Item #3 — Mouthpieces**

3.1.3.1 Contract Item #3 must be compatible with Intoximeter EC/IR II or equal

**CMI, Inc. can supply mouthpieces compatible with the Intoxilyzer 9000. Note, should WV desire, the Intoxilyzer 9000 can be fitted with an adapter to accommodate the EC/IR II mouthpiece.**

**The Intoxilyzer 9000 requires a mouthpiece for each subject test. The mouthpieces supplied by CMI, Inc. are individually wrapped.**

**3.1.4 Contract Item #4 — Printer Paper**

3.1.4.1 Contract Item #4 must be compatible with Intoximeter EC/IR II or equal

**The Intoxilyzer 9000 utilizes a 3 inch wide thermal printer paper roll. The thermal paper has a 7 year life expectancy if proper storage conditions are met.**

**3.1.5 Contract Item #5 — Training**

Training shall include engineering, production, maintenance, calibration and repair of the proposed instrument. Data management training shall also be included. A per person cost to be listed for training additional personnel at a later date (does not include the six (6) personnel being trained at contract award). This shall be a 40 hour training course to be conducted at the manufacturer's location. The vendor shall issue a certificate to each individual who completes the course.

**CMI, Inc. agrees to the above requirement.**

**Exhibit 1**

**REQUEST FOR QUOTATION  
CRFQ DPS1500000026 - Evidential Breath Alcohol Testing Instruments**

**8 MISCELLANEOUS:**

- 8.4 Contract Manager: During its performance of this Contract, Vendor must designate and maintain a primary contract manager responsible for overseeing Vendor's responsibilities under this Contract. The Contract manager must be available during normal business hours to address any customer service or other issues related to this Contract. Vendor should list its Contract manager and his or her contact information below.

Contract Manager:	Pamela J. Hagan
Telephone Number:	270-685-6294
Fax Number:	270-685-6678
Email Address:	<a href="mailto:pjhagan@alcoholtest.com">pihagan@alcoholtest.com</a>





U.S. Department  
of Transportation

National Highway  
Traffic Safety  
Administration

Exhibit 3

1200 New Jersey Avenue, SE  
Washington, DC 20590

Mr. Brian T. Faulkner  
Manager of Engineering  
CMI, Incorporated  
316 E. 9<sup>th</sup> Street  
Owensboro, KY 42303

JUL 23 2012

Dear Mr. Faulkner:

This letter confirms that CMI, Inc. **Intoxilyzer 9000** evidential breath testing device has been evaluated by the Volpe Transportation Systems Center and found to meet the model specifications for EBT devices. Enclosed is a copy of the evaluation report. The **Intoxilyzer 9000** device will be included in the next update of the Conforming Products List (CPL) for breath EBTs.

In order for this device to be used as a breath alcohol measuring instrument by workers in the U.S. Department of Transportation (USDOT) workplace testing program, a quality assurance plan (QAP) must be approved by NHTSA, as required by 49 CFR Part 40, "Procedures for Transportation Drug and Alcohol Testing Program" (59 FR 7340). The QAP requires users to calibrate your equipment following your device's instruction, and the instructions provided by the manufacturer of a calibrating unit listed on the CPL for calibrating units. We have reviewed the QAP dated March 7, 2012 for the **Intoxilyzer 9000** and are pleased to inform you that this submission has been approved.

We will place this QAP on file at NHTSA, together with a copy of this letter for interested agencies. A copy will also be provided to the USDOT Office of Drug and Alcohol Policy and Compliance for their records.

Please be advised that this office is to be notified immediately of any revisions or modifications to the device or its quality assurance plan.

If you require further assistance or have any questions regarding NHTSA's quality assurance program in relation to 49 CFR Part 40, please do not hesitate to contact me at 202-366-1694.

Sincerely,

  
J. De Carlo Ciccel  
Program Analyst

Enclosure

CC: Jim L. Swart, OST  
Edward Conde, Volpe

# INTOXILYZER<sup>®</sup>

# 9000



*CMI, Inc., the leader in  
evidential breath alcohol  
testing instrumentation  
introduces the  
Intoxilyzer 9000*

**CMI** INC.

Exhibit 4

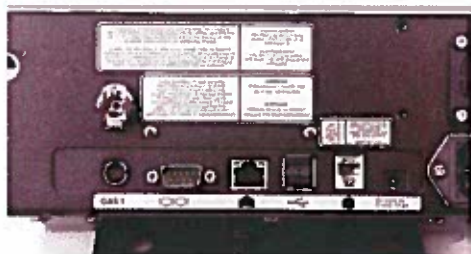
# INTOXILYZER®

# 9000

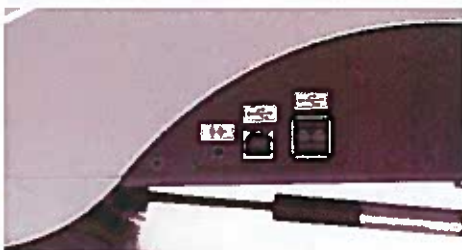


## ***The top performer in evidential breath testing***

The Intoxilyzer® 9000 has unparalleled performance in accuracy, precision and interferent detection by using pulsed infrared technology, eliminating chopper motors or mechanical filters in the analytical system. The Intoxilyzer® 9000 offers a wide range of options to exceed the demands of today's evidential breath testing programs.



Multiple Communication Ports



Easy Access USB and Audio Side Ports



Adjustable Height and Angle



## Options



On-Screen, Mini, and Full-Size Keyboards



### Barcode Reader

External USB single and 2 dimensional bar-code reader used to scan driver's license or ID cards, ethanol gas cylinders, and ethanol solution bottles.

### Signature Pad

External USB signature pad can be connected to collect signatures.



### Calibration Standards

The I-9000 calibration can be verified with either a dry gas standard or wet bath simulator.



### Optional Gas Delivery System

Gas delivery system utilizes standard 67 liter non-refillable cylinders. All ethanol gas cylinders are traceable to NIST standards. The ethanol gas standard port is separate from the wet bath simulator port.



## ***Features & Specifications***

### ***Multiple Wavelength***

Analyzes sample using multiple IR wavelengths.

### ***Range***

0.000 to 0.650 gram/210 liters

### ***Accuracy***

$\pm 3\%$  or  $\pm .003$  grams/210 liters (whichever is greater)

### ***Precision***

Standard deviation of .003 or better

### ***Interferent Detection***

Designed to meet OIML specifications

### ***Operating System***

Microsoft Windows CE 6.0

### ***Multi-Standard Calibration Check***

The instrument is equipped to use both dry and wet ethanol gas standards.

### ***Calibration Adjustment***

Instrument is capable of performing multi-point calibration adjustments. The menu driven sequence allows stand alone, field calibration adjustment.

### ***Pulsed Source***

Eliminates the need for a mechanical chopper in the analytical section by using a digitally controlled pulsed IR source.

### ***Approximate Dimensions***

	w/Gas	w/oGas
Length	19"	14 1/2"
Width	14"	14"
Height (lowered)	6 3/4"	6 3/4"

### ***Weight***

w/Gas	w/oGas
12 lbs.	10 lbs.

### ***Internal Printer***

Thermal, line printer (480 dots/line), fast print speed, standard paper width and length. Easy self aligning paper loading, low paper indicator and paper out detection.

### ***External Printer***

USB compatible PCL LaserJet

### ***Memory***

128 MB RAM, 512 MB Nand Flash, Optional Internal SD Card slot for memory expansion up to 32 GB.

### ***Warranty***

Instrument has a standard one (1) year warranty.



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# INTOXILYZER® 9000 SPECIFICATION

December 2014  
Version 1.0g

## Exhibit 5

### FUNCTIONAL

#### Power Switch

The AC mains power switch is located on the back panel.

#### Start Test Icon

Used to initiate a test sequence. Traditional green in color.

#### Power Status Indicator

Illuminated faceplate will denote external power applied.  
LED indicators will denote internal/external power and battery charge status.

#### Display

7 inch, color, graphic, touch screen, 800 x 480 resolution.

#### Audio

Voice and/or tone signals are software configurable to denote the operation and testing status.

#### Keyboard

On-screen keyboard or external USB-compatible keyboard.

#### Communications

- 2 to 4 USB 2.0 Host Ports (expandable)
- 1 USB 2.0 Device Port
- 1 Serial RS232 port
- 1 10/100 Ethernet RJ45 Connection
- 1 Analog Modem (33.6) RJ 11 Connection

#### Software Configuration

Selection of instrument operating and interface parameters are user configurable.

#### Breath Sampling

The instrument automatically senses end expiratory (deep lung) air using breath flow, minimum time, breath volume, and slope detection.

#### Multi-Standard Calibration Check Ready

The instrument is equipped to use both dry and wet ethanol standards.

#### Atmospheric Compensation

The instrument compensates for ambient atmospheric pressure during dry gas calibration checks. The result is compensated in accordance with the ideal gas law.

#### Standby Mode

The instrument enters a lower power mode when not performing testing. The time interval between last activity and low power fall back is fixed at 30 minutes.

#### Remote Activation

Instrument can be activated by a modem or Ethernet connection for communications and remote testing.

#### Calibration Adjustment

Instrument is capable of performing multi-point calibration adjustments. The process sequence is a menu-configurable to allow for stand-alone field-calibration adjustments.

#### Re-circulation

Instrument is used with a simulator in a re-circulation mode, extending the life of a wet simulator's solution.

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# INTOXILYZER® 9000 SPECIFICATION

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## Exhibit 5

### PERFORMANCE

#### Range

0.000 to 0.650 grams/210 liters

#### Accuracy

±3% or ± .003 grams/210 liters, whichever is greater.

#### Precision

Standard deviation of .003 or better.

#### Test Time

Approximately one minute (excluding data entry).

#### Interferent Detection

Meets OIML specifications.

### ANALYTICAL

#### Quad Wavelength

The instrument analyzes the sample at four wavelengths: three wavelengths in the 9 µM range and one in the 8 µM range.

#### Pulsed Source

The instrument uses a pulsed IR source, eliminating the need for a mechanical wheels and motors in the analytical hardware.

#### Internal Test Procedure (ITP)

An ITP is performed by varying the power intensity to the IR source and measuring the result at the detector, eliminating the need for external testing sources.

### ELECTRICAL

#### Power

Input Voltage AC: 90 – 264 VAC, 1 Amp max @115VAC, 47-63 HZ

Input Voltage DC: 12VDC nominal (10 – 16 VDC range), 8 Amps max.

#### Fusing and Filtering

AC utilizes passive filtering to meet FCC specs. AC is fused at the AC mains switch module.

DC power complies with ISO 7637-1:2002 (road vehicles – electrical disturbances). External DC power is protected from over and reverse voltages, and is fused separately.

### ENVIRONMENTAL

#### Suggested Operating Temperature

0° C to 40° C.

Warm-up time not to exceed 15 minutes at 20° C.

Warm-up time not to exceed 20 minutes at 5° C.

#### Storage temperature

-10°C to 60°C

#### Humidity

1% to 100%, non-condensing

#### Atmospheric Pressure

600 - 1100 hPa

### MECHANICAL

#### Approximate Dimensions

	<u>w/Gas</u>	<u>w/oGas</u>
Length	19"	14 1/2 "
Width	14"	14"
Height (lowered)	6 3/4 "	6 3/4"
Height (raised)	9 3/4"	10 3/4"

#### MECHANICAL (cont.)

#### Weight

<u>w/Gas</u>	<u>w/oGas</u>
12 lbs.	10 lbs.

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## Exhibit 5

### Case Material

ABS Plastic/aluminum.

### Handle

Discreetly located handle to allow for easy instrument transport.

### Printer Door

For easy access to the internal printer mechanism and for paper replacement.

### Storage Compartment

Storage compartment located on top panel of instrument may be used to store mouthpieces.

### Cooling Fan

A temperature control fan is included to provide filtered airflow through the instrument for cooling. Fan only runs when necessary.

## SAFETY

UL Approved.  
CE Approval Pending.  
*All board level DC/DC converter outputs are protected by self-resettable fuses.*

## COMPATABILITY

FCC Part 15 Class B  
FCC Part 68  
US DOT (58FR – 48705)

## PLUMBING

### Breath tube

Heated, flexible, non-kinking, non-collapsible hose, 22" in length.  
Temperature set point at 45° C. Breath tube rests freely in a groove at the side of the instrument.

### Calibration Port Inlet

Female quick disconnect fitting located on the right side of the instrument.

### Calibration Port Return

Male quick disconnect fitting located on the right side of the instrument next to the calibration port inlet.

### Gas Standard Port Inlet

Female quick disconnect fitting located on the back of the instrument used for dry gas standards. Inlet includes a control port for an external solenoid and pressure transducer (monitor tank pressure). A second port is available as an option.

### Breath Flow Sensor

Pressure transducer that translates pressure into flow rate. The sample point is located near the entrance of the analytical chamber to allow for measurement of breath flow rates. Subsequent volume measurement accuracies are  $\pm 10\%$ .

### Non-Return Valve

A non-return valve is placed in the system to prevent suck back.

### Exhaust

The breath exhaust leaves the instrument out the bottom panel. The bottom panel is used to cover the exhaust port eliminating the chance of blockage, either intentional or accidental. The pump exhaust exits out the back of the instrument.

### Mouthpieces

The instrument accepts standard CMI mouthpieces for evidential instruments.

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# INTOXILYZER<sup>®</sup> 9000 SPECIFICATION

December 2014  
Version 1.0g

## Exhibit 5

### Pump

Oscillating diaphragm.

## ELECTRONICS

### System CPU

400 MHz ARM Processor.

### Memory

128 MB RAM, 512 MB NandFlash,  
Expandable to 32 GB, via internal SD  
Card.

### Real Time Clock

Accurate to  $\pm 10$  minutes per year.

## SOFTWARE

### Operating System

Microsoft Windows CE 6.0 R3

## OPTIONAL

### Internal Printer

Thermal, line printer 480 dots/line, 28, 36, 48, or 72 characters per column, >2" per second print speed, 3 1/8" paper width, 85' paper length, character height depends on number of characters per column. Easy paper loading with low paper indicator (on paper) and paper out detection.

### External Printer

USB compatible PCL6 LaserJet.

### Serial Communications

RS232 connection for intelligent simulator.

### Internal Magnetic Card Reader

An optional 1, 2, or 3 track magnetic card reader may be used to scan driver's license or ID cards.

### Gas Delivery System

Attached gas delivery system is available for the instrument utilizing standard 67 liter non-refillable ethanol gas standards. The inlet port for the ethanol gas standard is separate from the port used for a wet bath simulator.

### External Barcode Reader

An optional 2 dimensional barcode reader can be attached to the instrument via USB port. Barcode reader may be used to scan driver's license or ID cards, cylinders of ethanol standards, and bottles of ethanol solutions.

### Internal Li-ion Battery pack

An optional Li-ion Battery pack is available for the instrument which will allow up to 100 tests to be conducted after warming up on mains power. When installed, the battery also acts as an uninterruptible power supply.

## WARRANTY

The instrument has a 1 year warranty.

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## Exhibit 6

### REQUEST FOR QUOTATION CRFQ DPS1500000026 - Evidential Breath Alcohol Testing Instruments

## Overview of Diagnostic Test Functions

**Analytical Checksum:** Calculates a checksum for the analytical file and compares it to the stored checksum in the database. This calculation and comparison function of the checksum ensures the analytical file is not damaged.

**Voltage/Current:** Verifies all voltage and current values of various components are within normal limits.

**Memory:** Validates the instrument RAM (random access memory) and the NAND flash (file storage).

**Real Time Clock:** Validates the instrument time and date are actual time and date values.

**Temperature Regulation:** Verifies cell and breath hose heaters are up to temperature and stable. Cell temperature -  $47^{\circ}\text{C} \pm 0.2^{\circ}\text{C}$  and Breath hose temperature -  $45^{\circ}\text{C} +2/-9^{\circ}\text{C}$

**Analog to Digital Converter (ADC):** Tests various instrument components involved in signal processing.

**Analytical Status:** Checks version number of applicable software.

**Version Status:** Checks version number of applicable software.

### Optional

**Internal Test Procedure (ITP):** The ITP checks the system all the way from the IR source through the IR detection electronics and finally through the stored calibration to ensure the instrument calibration is sound, all without the need of external standards, dry or wet.

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