



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 3

List View

General Information Contact Default Values Discount Document Information Clarification Request

Procurement Folder: 1872109

Procurement Type: Central Purchase Order

Vendor ID: VS0000045819

Legal Name: SWIPE RESOURCES LLC

Alias/DBA: HAMZA MASUD

Total Bid: \$135,988.00

Response Date: 02/05/2026

Response Time: 13:17

Responded By User ID: swiperesources

First Name: Hamza

Last Name: Masud

Email: hamza.masud@swiperesou

Phone: 7038706182

SO Doc Code: CRFQ

SO Dept: 0313

SO Doc ID: DEP2600000021

Published Date: 1/15/26

Close Date: 2/5/26

Close Time: 13:30

Status: Closed

Solicitation Description: Multi-Gas Dilution Calibrators w/Ozone Generators

Total of Header Attachments: 3

Total of All Attachments: 3



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

State of West Virginia
Solicitation Response

Proc Folder: 1872109
Solicitation Description: Multi-Gas Dilution Calibrators w/Ozone Generators
Proc Type: Central Purchase Order

Solicitation Closes	Solicitation Response	Version
2026-02-05 13:30	SR 0313 ESR02052600000004548	1

VENDOR
VS0000045819
SWIPE RESOURCES LLC

Solicitation Number: CRFQ 0313 DEP2600000021
Total Bid: 135988
Response Date: 2026-02-05
Response Time: 13:17:41
Comments: Shipping is extra for a total of \$100

FOR INFORMATION CONTACT THE BUYER
Joseph (Josh) E Hager III
(304) 558-2306
joseph.e.hageriii@wv.gov

Vendor
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	Multi-Gas Dilution Calibrators w/Ozone Generators	6.00000	EA	22648.000000	135888.00

Comm Code	Manufacturer	Specification	Model #
49241708			

Commodity Line Comments: See the attached spec sheet

Extended Description:
Multi-Gas Dilution Calibrators w/Ozone Generators

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
2	Shipping charges	1.00000	EA	100.000000	100.00

Comm Code	Manufacturer	Specification	Model #
78121603			

Commodity Line Comments:

Extended Description:
Shipping charges



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

State of West Virginia
Centralized Request for Quote
Miscellaneous

Proc Folder: 1872109

Doc Description: Multi-Gas Dilution Calibrators w/Ozone Generators

Reason for Modification:

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2026-01-15	2026-02-05 13:30	CRFQ 0313 DEP2600000021	1

BID RECEIVING LOCATION

BID CLERK
DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
2019 WASHINGTON ST E
CHARLESTON WV 25305
US

VENDOR

Vendor Customer Code: VS0000045819

Vendor Name : Swipe Resources LLC

Address :

Street : 7491 Flag Point Ct.

City : Manassas

State : VA

Country :

Zip : 20109

Principal Contact : Hamza Masud

Vendor Contact Phone: (703) 870-6182

Extension:

FOR INFORMATION CONTACT THE BUYER

Joseph (Josh) E Hager III
(304) 558-2306
joseph.e.hageriii@wv.gov

Vendor Signature X

FEIN# 85-1143501

DATE 2/5/2026

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

ADDITIONAL INFORMATION

The West Virginia Purchasing Division is soliciting bids on behalf of The West Virginia Department of Environmental Protection, Division of Air Quality, to establish a contract for the one-time purchase of six (6) Computerized Multi-Gas Dilution Calibrators with ozone generators - Environics 6100 or equal per the attached specifications and terms and conditions.

INVOICE TO			SHIP TO		
ENVIRONMENTAL PROTECTION DIVISION OF AIR QUALITY 601 57TH ST SE CHARLESTON WV US			ENVIRONMENTAL PROTECTION DIVISION OF AIR QUALITY 601 57TH ST SE CHARLESTON WV US		

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Multi-Gas Dilution Calibrators w/Ozone Generators	6.00000	EA	\$22648.00	\$135888

Comm Code	Manufacturer	Specification	Model #
49241708		Series 6103 Ozone Transfer Standard and Multi-Gas Calibrator	

Extended Description:

Multi-Gas Dilution Calibrators w/Ozone Generators

INVOICE TO			SHIP TO		
ENVIRONMENTAL PROTECTION DIVISION OF AIR QUALITY 601 57TH ST SE CHARLESTON WV US			ENVIRONMENTAL PROTECTION DIVISION OF AIR QUALITY 601 57TH ST SE CHARLESTON WV US		

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
2	Shipping charges	1.00000	EA	\$100	\$100

Comm Code	Manufacturer	Specification	Model #
78121603			

Extended Description:

Shipping charges

SCHEDULE OF EVENTS

<u>Line</u>	<u>Event</u>	<u>Event Date</u>
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	Document Phase	Document Description	Page 3
DEP2600000021	Final	Multi-Gas Dilution Calibrators w/ Ozone Generators	

ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

The Envionics® Series 6103 Ozone Transfer Standard / Multi-Gas Calibrator automatically performs zero, precision, span and multi-point calibrations using NO, NO₂, SO₂, CO, O₃, hydrocarbons and other gases of interest. The 6103 meets or exceeds all U.S. Environmental Protection Agency and NCORE requirements.

The Series 6103 consists of a single chassis supporting up to 3 thermal mass flow controllers (MFCs), an ozone generation module, photometer, glass output manifold, mixing chamber, a reaction chamber for gas phase titration, and control electronics.



The internal photometer measures the actual amount of ozone generated, and corrects for errors, using closed-loop PID control. The photometer also allows an external source of ozone to be analyzed and displayed on the screen. The external ozone is connector to a separate sample port, allowing for simultaneous gas blending while monitoring the external ozone source.

The internal ultra-violet (UV) based ozone generator is temperature controlled and includes a precision photo-optical feedback circuit to compensate for lamp aging effects providing stable ozone generation. The ozone generator is factory calibrated using a NIST traceable photometer standard.

The instrument may also be remotely operated using contact closures or the RS-232 serial data interface, both are standard in the Series 6103. LEADS compatibility allows seamless integration of Envionics calibrators into your existing collection system. LEADS is a commercial system for collecting, integrating, and processing meteorological, air quality, and water quality data.

The S6103 comes standard with two mass flow controllers, but a third can be added to support a larger range of dilutions. The mass flow controllers are calibrated to a NIST (National Institute of Standards and Technology) traceable primary standard. The calibration data consists of a comparison of desired versus actual flow over the full dynamic range of the instrument with linear interpolation between points. Calibration data is stored in non-volatile memory and may be updated by the user with a suitable standard.

PRODUCT FEATURES AND BENEFITS

- User-friendly interactive software reduces training time and error.
- An automated, pressure decay leak test to determine if the system has any internal leaks.
- Automatic calculation of dilution and span gas flows based on commanded concentration eliminates the need for manual computation and allows rapid transition from point to point.
- Internally-stored calibration data improves accuracy by as much as a factor of ten. MFCs are factory calibrated at 11 points.
- Internally-stored ozone generator calibration data insures linear, repeatable ozone generation without photometer control. The ozone generator is factory calibrated at 3 points (up to 11 points are available).
- Ozone generator pressure compensation ensures repeatable and stable ozone generation at pressures other than the original calibration pressure.

SOFTWARE

- **Concentration mode:** In response to software prompting, user selects gas port, span (cylinder) gas concentration, output gas flow (total) and output gas concentration. Series 6103 automatically delivers concentrations at the total flow specified.
- **Generate Ozone:** Allows user to specify, then generate a precise concentration of ozone.
- **Photometer:** Allows an external source of ozone to be analyzed and displayed on the screen. Also allows user to control the ozone generator when PID control loop is enabled.
- **Gas Phase Titration:** Utilizes blend and generate ozone routines to lead user through GPT using "excess NO" method.
- **Flow Mode:** Allows user to manually command a desired rate of flow for each mass flow controller, individually or together, and with or without ozone.
- **Display:** Allows user to monitor flow rates for each mass flow controller separately. Also provides ozone oven, pressure and photometer diagnostic information.
- **Maintain Ports:** User enters the name of the span gas in the source cylinder, its concentration (ppm) and the port to which the cylinder is connected.

SPECIFICATIONS

Mass Flow Controller (as a percent of setpoint)*

	From 10 to 100% of Full Scale Flow
Accuracy:	
Concentration:	± 1.0%
Flow:	± 1.0%
Repeatability	± 0.05%

* Mass flow controllers are calibrated using a NIST traceable Primary Flow Standard, using a Reference Temperature of 25° C (77°F) and a Reference Pressure of 760mm Hg (29.92 in. Hg)

Warm up time: 30 minutes

Ozone Generator

Concentration Range: 0.02 - 0.5 ppm at 5 – 10 slpm
Optional Ranges: 0.05 - 1 ppm at 5 – 10 slpm
Other ranges available upon request

UV Photometer

Repeatability: ±1 ppb
Linearity: 0.3% F.S.O.
Noise: ±1 ppb
Precision: 1 ppb

Mechanical

Inlets

Balance: External ¼" Swagelok™*
Span(s): External ¼" Swagelok™*

Outlet

Three external ¼" Swagelok™*
*(or compatible fitting)

Operating Pressures at inlets

Minimum: 15 psig (1.03 Bar)
Nominal: 25 psig (1.72 Bar)
Maximum: 30 psig (2.07 Bar)

Wetted Surfaces

Tubing:	Teflon™
Glass Chambers	Pyrex™
MFC's:	Stainless Steel
Seals:	Viton™

Operating temperatures

32° - 122° F (0° - 50° C)

Performance Temperature Range

59° - 95° F (15° - 35° C)

Weight

Standard: 27 lbs.

Dimensions (w x h x d)

Portable: 17" x 7" x 15"
Rack: 19" x 7" x 15"

Electrical

Standard: 100 VAC to 250 VAC, (50/60 Hz)

Current: 2 Amps (maximum)

Operating Modes

Front panel keypad
Internal timer control
RS-232 serial data interface
I/O control (8 inputs / 8 outputs) programmable through software

Data I/O

RS-232 serial data interface
I/O Control (8 inputs / 8 outputs)

OPTIONS

- Rack Mount
- Permeation Oven
- 3rd Mass Flow Controller



Or [click here](#) to learn more

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A Virginia SBSD Small, Micro and Minority Approved
Company

Unit Price:

\$22648.00/each

This unit will dilute span gas, generate ozone and perform rapid gas titration of NO with O₃ to produce NO₂ and is configured as follows:

- One **20 SLPM** dilution gas mass flow controller
- One **100 SCCM** span gas mass flow controller
- One **10 SCCM** mass flow controller
- One dilution gas port
- Four span gas inlet ports
- Teflon tubing
- Ozone Generation Module, reaction chamber and electronics for Ozone calibration and gas phase titration.
- RS-232 Serial Data Interface (Terminal/Printer Computer/Modem)
- I/O control (8 inputs / 8 outputs) programmable through software.
- **Photometer**
- **Portable configuration**
- 23" Chassis
- Output Solenoid
- **USB-Ethernet adapter - YJETH-232**