

**DEPARTMENTAL INPUT  
CONTRACT/PROJECT MEASURE ANALYSIS AND RECOMMENDATION**

Rev 1

<input checked="" type="checkbox"/> <b>New contract</b>	<input type="checkbox"/> <b>OTR</b>	<input type="checkbox"/> <b>CO</b>	<input type="checkbox"/> <b>SS</b>	<input type="checkbox"/> <b>BW</b>	<input type="checkbox"/> <b>Emergency</b>	<b>Previous Contract/Project No:</b> FB-00052
<input type="checkbox"/> <b>Re-Bid</b>	<input type="checkbox"/> <b>Other</b>	LIVING WAGE APPLIES: ___ YES <input checked="" type="checkbox"/> NO				

Contract No: FB-00926 Term of contract: 5 years with no option-to-renew

Requisition No: RQID1800129

Requisition/Project Title: Medical, Industrial Gases and Related Items

Description: The purpose of this solicitation is to establish a contract for the purchase of medical, industrial gases and related items for various Miami-Dade County departments in conjunction with the County's needs on an as needed when needed basis.

User Department(s): Various See Attachment (A)

Issuing Department: Internal Services Department Procurement Management Division

Contact Person: Martha Garofolo Phone: 305-375-4265

Estimated Cost: \$2,016,800.00 Funding Source: Various See Attachment (A)

**ANALYSIS**

Commodity/Service No: <u>430-48 / 430-92</u>		SIC:	
<b>Trade/Commodity/Service Opportunities</b>			
Contract/Project History of Previous Purchases For Previous Three (3) Years Check Here ___ if this is a New Contract/Purchase with no Previous History			
	<u>EXISTING</u>	<u>2<sup>ND</sup> YEAR</u>	<u>3<sup>RD</sup> YEAR</u>
Contractor:			
Small Business Enterprise:			
Contract Value:			
Comments:			
Continued on another page (s): ___ Yes ___ No			

**RECOMMENDATIONS**

SBE	Set-Aside	Sub-Contractor Goal	Bid Preference	Selection Factor
		%		
		%		
		%		
		%		

Basis of Recommendation:

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Signed: 

Date to SBD: June 5, 2018

**DEPARTMENTAL INPUT**  
**CONTRACT/PROJECT MEASURE ANALYSIS AND RECOMMENDATION**

Rev 1

ATTACHMENT (A)

<b>Dept.:</b>	<b>Allocation</b>	<b>Funding Source</b>
ASD	\$15,000.00	General Funds
AV	\$30,000.00	Proprietary
FR	\$350,000.00	Fire District
ID-02 Fleet	\$73,300.00	Internal Service Funds
DTPW	\$48,000.00	Operating No PTP
PD	\$60,000.00	General Funds
RER	\$35,000.00	Proprietary
PR	\$114,000.00	General Funds
PORT	\$17,500.00	Proprietary
DSWM	\$50,000.00	Proprietary
WS	\$1,224,000.00	Proprietary

**\$2,016,800.00**

**SECTION 2 - SPECIAL TERMS AND CONDITIONS****2.1 PURPOSE**

The purpose of this solicitation is to establish a contract for the purchase of medical, industrial gases and related items for various Miami-Dade County departments in conjunction with the County's needs on an as needed when needed basis.

**2.2 TERM OF CONTRACT**

This contract shall commence on the first calendar day of the month succeeding approval of the contract by the Board of County Commissioners, or designee, unless otherwise stipulated in the Notice of Award Letter distributed by the County's Department of Internal Services, Procurement Management Division and contingent upon the completion and submittal of all required bid documents. The contract term is for five (5) years and shall expire on the last day of the last month of the contract term.

**2.3 METHOD OF AWARD**

Award of this contract will be made to the two lowest priced responsive, responsible bidders on a group-by-group basis. Bidders may bid on any or all groups. To be considered for award, the bidder shall offer prices for all items within a given group. The County will then select the bidders for award for each group by totaling the unit prices for all of the items within each group. If a bidder fails to submit an offer for all items within the group, its offer for that specific group shall be rejected.

While the method of award prescribes the method for determining the lowest responsive, responsible bidder, the County will award this contract to the designated lowest bidder as the primary vendor and will award this contract to the designated second lowest bidder as the secondary vendor respectively. If the County exercises this right, the primary awarded vendor shall have the primary responsibility to initially perform the service or deliver the goods identified in this contract. If the primary awarded vendor fails to perform it may be terminated for default and the County shall have the option to seek the identified goods or services from the secondary awarded vendor.

Award to multiple vendors is made for the convenience of the County and does not exempt the primary awarded vendor from fulfilling its contractual obligations. Failure of any awarded vendor to perform in accordance with the terms and conditions of the contract may result in the awarded vendor being deemed in breach of contract.

Bidders shall provide the following documentation with bid submittal:

1. Bidder shall submit emergency contact information for 24-hour contact. (See Emergency Service Section 2, Paragraph 2.16). The vendor agrees by the submission of their bid to prioritize delivery to the Miami-Dade Fire Rescue Department in cases of emergencies or natural disasters.
2. If the bidder shall be utilizing a third party distributor or manufacturer as the source of supply for obtaining and delivering products and/or materials required in conjunction with this Solicitation, the bidder shall supply a copy of its agreement with the supplier with bid submission. The information contained in such agreement(s) shall include, but not be limited to shipping, delivery terms, packaging requirements, and product specification sheets for each type of gas or mixture of gas being offered in accordance with the best industry standards and practices.

3. If the bidder is providing a price for Group (7) Industrial Grade Liquid Oxygen (LOX) by Tank Truck, the bidder shall provide the following information: 1) the product manufacturer; 2) the shipping point of the liquid oxygen; and 3) the number of years they have been distributing LOX.

## 2.4 **PRICE ADJUSTMENT**

The initial contract prices resultant from this Solicitation shall prevail for a one (1) year period from the contract's initial effective date. Prior to completion of each one year period of the contract, the County may consider an adjustment to price effective the next contract year based on changes in the following pricing index: All Urban Consumers, All Items, Miami, Fort Lauderdale Area.

It is the vendor's responsibility to request any pricing adjustment under this provision. The request for adjustment must be submitted 90 days prior to expiration of the then current contract year. The adjustment request cannot be in excess of the relevant pricing index change. If no adjustment request is received, the County will assume that the awarded vendor has agreed to maintain the then current pricing. Any adjustment request received after the annual contract anniversary date will only be considered for the following contract year. The County reserves the right to reject any price adjustments submitted.

The County reserves the right to negotiate lower pricing based on market research information or other factors that influence price. The County reserves the right to apply any reduction in pricing based on the downward movement of the applicable index.

## 2.5 **DELIVERY**

The vendor shall make deliveries within two (2) calendar days after the date of the order or as specified on the purchase order. All deliveries shall be made in accordance with good commercial practice and all required delivery timeframes shall be adhered to by the vendor(s); except in such cases where the delivery will be delayed due to acts of nature, strikes, or other causes beyond the control of the vendor. In these cases, the vendor shall notify the County of the delays in advance of the original delivery date so that the County can appropriately consider a revised delivery schedule.

Should the vendor fail to deliver in the number of days stated above, the County reserves the right to cancel the contract on a default basis. If the contract is terminated, it is hereby understood and agreed that the County has the authority to purchase the goods elsewhere and to charge the incumbent vendor with any re-procurement costs.

Certain County employees may be authorized in writing to pick-up materials under this contract. Vendor(s) shall require presentation of this written authorization. The vendor shall maintain a copy of the authorization.

If the vendor is in doubt about any aspect of material pick-up, the vendor shall contact the appropriate user department to confirm the authorization.

### **DELIVERY FOR MIAMI-DADE FIRE RESCUE DEPARTMENT**

Deliveries for MDFR shall be twenty-four (24) hours after the pickup of empty oxygen bottles. Pickups shall be daily. If day is a public holiday, then the next day shall be the pickup day. During emergencies, the vendor shall be available to provide oxygen on a daily basis seven (7) days per week (Monday thru Sunday).

**2.6 BACK ORDER DELAYS**

The County shall not allow any late deliveries attributed to product back order situations under this contract. Accordingly, the vendor is required to deliver all items to the County within the time specified, and no grace period because of back order situations is allowed, unless the user department issues written authorization, and a new delivery date is mutually established. In the event that the primary awarded vendor fails to deliver the products within the time specified, the County reserves the right to cancel the order and seek the items from the secondary awarded vendor.

**2.7 ACCEPTANCE OF PRODUCT BY THE COUNTY**

The product(s) to be provided hereunder shall be delivered to the County, in full compliance with the specifications and requirements set forth in this contract.

All products will be inspected by an authorized representative of the County. This inspection shall be performed to determine acceptance, appropriate invoicing, and warranty conditions. If a vendor provides product(s) that do not meet the specifications and requirements of this contract, prior either to acceptance or upon initial inspection, the item will be returned, at vendor's expense, to the vendor. At the County's own option, the vendor shall either provide a direct replacement for the item, or provide a full credit for the returned item. The vendor shall not assess any additional charge(s) for any conforming action taken by the County under this clause.

**2.8 PURCHASE OF OTHER ITEMS NOT LISTED WITHIN THIS SOLICITATION BASED ON PRICE QUOTES**

While the County has listed all major items within this solicitation, which are utilized by County departments in conjunction with their operations, there may be similar items that must be purchased by the County during the term of this contract. Any additional items required may be purchased as needed. Under these circumstances, a County representative will contact the primary vendor to obtain a price quote for the similar services or items.

If there are multiple vendors on the contract, the County representative shall also obtain price quotes from these vendors. The County reserves the right to award these similar items to the primary vendor or, another vendor based on the lowest price quoted, or to acquire the items through another means.

**2.9 ADDITIONAL FACILITIES / DELETION OF FACILITIES**

Although this solicitation identifies specific facilities to be serviced, it is hereby agreed and understood that any County department or agency facility may be added or deleted when such service is no longer required during th

**2.10 COMPLIANCE WITH FEDERAL STANDARDS**

All items to be purchased under this contract shall be in accordance with all governmental standards, to include, but not be limited to, those issued by the Occupational Safety and Health Administration (OSHA), the National Institute of Occupational Safety Hazards (NIOSH), and the National Fire Protection Association (NFPA). All gas cylinder labeling must meet US Department of Transportation (DOT) and Occupational Safety and Health Standards (OSHA) Regulations and Specifications (Standards – 29 CFR, Section 1910) including, but not limited to, legible markings and proper color coding of cylinders for the purpose of identifying the gas content with either the chemical or trade name of the gas. Such markings shall be by means of stenciling, stamping or labeling, and shall not be readily removable.

**2.11 LEGAL REQUIREMENT FOR POLLUTION CONTROL**

It is the intent of these specifications to comply with the Miami-Dade County Pollution Control Ordinance as stated in Chapter 24 of the Miami-Dade Code. This ordinance is made a part of these specifications by reference and may be obtained, if necessary, by the vendor through the Department of Permitting, Environment, and Regulatory Affairs, 701 N.W. 1 Court, 4<sup>th</sup> Floor. Miami, Florida 33136, Telephone (305) 372-6789.

**2.12 TESTING OF RANDOM SAMPLES OF DELIVERED PRODUCTS**

During the term of the contract, samples of delivered items may be randomly selected and tested for compliance with these specifications. If it is found that the delivered items do not conform to the specifications, the County shall require replacement within a reasonable length of time and may cancel the contract for default.

**2.13 SEPARATE DEMURRAGE CHARGES WILL NOT BE ALLOWED**

The County shall not incur separate demurrage charges from vendors who supply containers on an interim basis to the County in conjunction with this contract.

Any rental or demurrage costs for such containers that are normally charged by the vendor must be reflected in the unit prices offered by the vendor.

EXEMPTION: Cylinder rental prices shall be quoted on the basis of thirty (30) days of free usage, with demurrage charges to be assessed daily from the thirty-first day on. Rented cylinders will be returned to the vendor when empty or at the expiration of the contract period.

**2.14 EMERGENCY SERVICE**

In the event a State of Emergency is declared by Miami-Dade County, the vendor shall provide 24-hour service for emergency delivery to the County Departments. Delivery shall be made throughout the duration of the State of Emergency within four (4) hours of notification by the County. Vendors may be required to maintain their current pricing for the duration of the State of Emergency. The vendor shall coordinate efforts with Miami-Dade County in delivering services outside the normal schedule as required under this solicitation.

**2.15 MINOR REPAIRS**

In the event any minor repairs are required to cylinders, storage tanks, or other items associated with the provisions on this solicitation, the user department may choose to obtain a written estimate from the vendor(s) on the contract. The user department will request a written estimate of a firm fixed price for the repair service required. The vendor's written estimate shall include the labor and material charges separately; and the vendor shall not proceed with any repair work without the explicit written permission from an authorized County representative on this contract.

**SECTION 3 – TECHNICAL SPECIFICATIONS****3.1 SCOPE**

The vendor shall furnish and deliver various medical and industrial gases to various Miami- Dade County Departments.

**3.2 GENERAL SPECIFICATIONS**

County Departments utilize various types of gases for their daily operational needs, in this section County Departments are listed under specific groups. This is only for informational purposes. The County Departments will avail themselves of any type of gas listed on this solicitation on as needed when needed basis.

**1. GAS PURITY**

- a. Vendor must provide a certificate of analysis, upon request, for the gases supplied. The certificate must state the type of analysis performed and its lowest detectable limits.
- b. Purity of gases must be stated in either weight percent or volume percent and the units stipulated.
- c. In the case of liquid nitrogen, the purity stated must indicate if it represents the liquid or gas phase.

**2. CYLINDERS**

- a. Cylinders shall have the approved American National Standard Compressed Gas Cylinder Valve Outlet and Inlet Connections as specified in Section 1910 of the OSHA Regulations (Standards - 29CFR) for each gas used. All valves must be functioning properly at the time of delivery.
- b. All cylinders shall be clearly labeled with all applicable current inspection certifications in accordance with OSHA standards Section 1910 and U.S. Department of Transportation Section 49 CFR Part 173.
- c. The vendor shall provide written guarantees on the integrity of the cylinders and the mixtures and purity of the gases offered. This information must be provided with the product specifications sheets for each type of gas or mixture of gas being offered in accordance with the best industry standards and practices.
- d. In the event the cylinders do not meet the criteria, the vendor will be responsible for the repair and/or replacement of the cylinders at no additional cost to the County.
- e. The vendor is responsible for filling the cylinders to the maximum capacity allowable by the manufacturer. In the event an odd size cylinder not listed needs to be refilled, the vendor will charge the standard cost per cubic foot of the gas requested.
- f. Cylinders that have exceeded their authorized service life shall be removed from County property by the vendor and may be properly transported for reprocessing or disposal of the cylinder's contents. Prior approval for cylinder removal shall be obtained from an authorized County representative.

- g. Cylinders delivered for exchange shall comply with all OSHA/DOT safety regulations and standards. Exchanged cylinders shall be unlabeled as to ownership.

**EXECEPTION**

Miami-Dade Fire Rescue (MDFR) owned cylinders shall not be exchanged with other entities or county departments and must be returned to MDFR. All MDFR "D", "H" and "M" cylinders are the property of MDFR.

**3. HYDROSTATIC TESTING**

- a. Hydrostatic testing shall be performed on all cylinders prior to delivery and certified for a minimum of five (5) years. The vendor shall apply the appropriate certification seal to all cylinders tested.
- b. Hydrostatic testing shall be performed on oxygen cylinders by the awarded bidder within no more than a period of sixty (60) days prior to delivery. (MDFR) will be responsible for detecting and separating cylinders that need hydrostatic testing.
- c. The awarded bidder shall be responsible for furnishing, repairing and hydrostatic testing of all cylinders at no cost to the County. In addition, the awarded bidder shall indicate cylinder numbers on their invoices and not a gas type code.

**4. VALVE STEMS**

For Miami-Dade Aviation (MDAD) and Fire Rescue (MDFR), it is required that the vendor deliver nitrogen bottles to be used as propellant for the fire agents used in the Fire Rescue Unit's ARFF trucks. These special bottles are equipped with the department's own valves.

**VALVE STEM INSTALLATION ONLY (MDFR TO PROVIDE VALVE) FOR MDAD / MDFR**

- a. Valve stem for size "D" carbon wrapped cylinder (Part No. CGA 540)  
b. Valve stem for size "D" aluminum/steel cylinder (Part No. CGA 870)

**VALVE STEM INSTALLATION REPLACEMENT FOR MDAD / MDFR**

- a. Valve stem for size "D" aluminum/steel cylinder (Part No. CGA 870)  
b. Valve stem for size "M" aluminum/steel cylinder (Part No. CGA 540)

**3.3 SPECIFICATIONS FOR DEPARTMENTS**

**ANIMAL SERVICES**

- a. Oxygen, "K" type cylinders, USP approved cylinder size: 249 cu. ft. /cyl.  
b. Oxygen, USP, size "E" "Medical Cylinder DOT Specifications: 3AL O.D.: 4.4" X 25.3" Weight 7.4 lbs.  
c. Oxygen, USP, size "M" "122 cu. ft. Dimension 7" X 43"



**PERMITTING ENVIRONMENT AND REGULATORY AFFAIRS (RER)****AIR MONITORING SECTION**

These gases are for the calibration and testing of ambient air monitors. All gases must be in spectra seal aluminum cylinders with a metal valve handle on the cylinder. Gases must be prepared and analyzed in accordance with the USEPA's most current guidelines. EPA Protocol gases must be directly traceable to either NIST (National Institute of Standards) SRMs (Standard Reference Materials) or NTRMS (NIST Traceable Reference Materials).

The gases must achieve +/- 1 % accuracy. Analyses must be for carbon monoxide (CO), sulfur dioxide (SO<sub>2</sub>), nitric oxide (NO) and nitrogen oxides (NO<sub>x</sub>) as appropriate using the appropriate analytical methods and procedures. It cannot be assumed that the nitric oxide concentration is equal to the nitrogen oxides concentration in the nitric oxide in nitrogen cylinders. Analysis must be done for both (NO and NO<sub>x</sub>) to the second decimal place (For Example: 24.05 PPM). The NO<sub>x</sub> concentration cannot be greater than 105% of the NO concentration. Gases must be delivered within one month after being requested with the required documentation and certificates of analysis arriving within two weeks of delivery. Each cylinder must have an individual identification number, which is used for certification records, cylinder tracking and cylinder demurrage fee calculation. An itemized statement must be provided at the end of each month with each cylinder being tracked by the cylinder identification number. The company must be the manufacturer/producer of the specified gases.

- a. Nitric oxide in oxygen free nitrogen (NO in N<sub>2</sub>)  
50.00-55.00 ppm  
~140 Cubic feet (cu. ft.)  
NO and NO<sub>x</sub> concentrations must be done to the second decimal place.  
For example, 50.05 PPM. NO and NO<sub>x</sub> concentrations cannot be equal.  
NO<sub>x</sub> concentration cannot be greater than 105% of the NO concentration.  
NO<sub>2</sub> must be less than 1 ppm  
EPA certification period 24 months
- b. Sulfur dioxide in nitrogen (SO<sub>2</sub> in N<sub>2</sub>)  
51.00-55.00 ppm  
~140 Cubic feet (cu. ft.)  
Concentration must be done to the second decimal place.  
For example, 53.77 PPM.  
EPA certification period 24 months
- c. Carbon monoxide in air (CO in Air)  
3.0-5.0 ppm  
~144 Cubic feet (cu. ft.)  
Concentration must be done to the first decimal place.  
For example, 3.6 PPM.  
EPA certification period 36 months
- d. Carbon monoxide in air (CO in Air)  
22.0-25.0 ppm  
~76 Cubic feet (cu. ft.)  
Concentration must be done to the first decimal place.

For example, 23.6 PPM.  
EPA certification period 36 months

- e. Carbon monoxide in air (CO in Air)  
15.0-17.0 ppm  
~76 Cubic feet (cu. ft.)  
Concentration must be done to the first decimal place.  
For example, 16.2 PPM.  
EPA certification period 36 months
- f. Carbon monoxide in air (CO in Air)  
38.0-40.0 ppm  
~144 Cubic feet (cu. ft.)  
Concentration must be done to the first decimal place.  
For example, 38.9 PPM.  
EPA certification period 36 months
- g. Carbon monoxide in air (CO in Air)  
195.0 – 200.0 ppm  
~140 Cubic feet (cu. ft.)  
Concentration must be done to the first decimal place  
For example 195.6 ppm  
EPA Certification period 36 months

#### **LABORATORY SECTION**

These gases are used as carrier gases for advanced instrumentation such as Gas Chromatography/Mass Spectrometry (GC/MS), Cold-Vapor Atomic Fluorescence Spectrometry (CVAFS), and Inductively Coupled Plasma/Atomic Emission Spectrometry (ICP/AES). All gases must meet their applications. Vendor must provide a certificate of analysis, upon request, for the gases supplied. The vendor shall specify the expected pressure when the cylinders are full.

- A. Liquid Argon UHP Grade DEWARS, 99.999% for ICP/AES as carrier gas, 180 or 230 Liters
- B. Argon UHP Grade, 99.999% for CVAFS as carrier gas, 336 cf
- C. Helium UHP Grade, 99.999% for GC/MS as carrier gas, 291 cf
- D. Nitrogen UHP Grade, 99.99% for Gas Chromatograph, 304 cf
- E. Liquid Argon UHP Grade DEWARS, 99.999% for ICP/AES as carrier gas
- F. Argon UHP Grade, 99.999% for CVAFS as carrier gas
- G. Helium UHP Grade, 99.999% for GC/MS as carrier gas
- H. Nitrogen UHP Grade, 99.99% for Gas Chromatograph

**INTERNAL SERVICES**

- a. Oxygen, "K" type cylinders, USP approved cylinder size: 249 cu. ft. /cyl.
- b. Acetylene, "WSL" type cylinder, cylinder size: 145 cu. ft. /cyl.
- c. Argon gas "T" type cylinder
- d. C25 Argon/CO2 Gas 25% "T" type cylinder

**MIAMI-DADE POLICE**

- a. Nitrogen, UHP grade, for gas chromatograph, 99-99.8%, size "J"
- b. Nitrogen, low pressure 180 liter, liquid
- c. Hydrogen, zero grade, size "J"
- d. Helium UHP grade, 99.99% size "J"
- e. Air, Ultra Zero 310 cu. ft. Size "T"

**WATER AND SEWER (WASD)**

The items below are specific to the Water and Sewer Department only.

**MONITORING CALIBRATION GAS CYLINDERS**

Hydrogen Sulfide-25ppm; Carbon Monoxide-100ppm; Pentane-25% LEL (0.35% Vol) Oxygen-19.00%; Nitrogen-Balance, Volume 25 cu. ft.; 1500psig @ 70 degrees F.

**INDUSTRIAL GRADE LIQUID OXYGEN (LOX)**

- a. The industrial grade liquid oxygen shall be a minimum guaranteed purity 99.5%, less than 0.5% inert ingredients, 80 degrees F. dew point or lower, industrial grade "B" LOX.
- b. Delivery of liquid oxygen shall be by tank truck, with the vendor providing all hoses, fittings and valves necessary to off/load the liquid oxygen into the storage tanks; tanks are fitted with industry standard fittings for loading. Tank trucks carry an estimated 4,500 gallons of LOX @ 70 degrees, equal 115.1 standard cubic feet.
- c. The liquid oxygen will only be ordered as required if the Miami-Dade County Wastewater Treatment Plants cannot manufacture sufficient liquid oxygen for its needs. There may be occasions where the quantities required will reach a maximum usage level of 189,000 gallons (three (3) tank trucks per day for 2 weeks). Bidder must consider this scenario when submitting their bid price and be able to guarantee the supply accordingly. Any surplus above the maximum usage level will allow the bidder to submit a price adjustment for that particular emergency. If the bidder cannot provide the liquid oxygen for that emergency, the Department reserves the right to obtain the product and pricing from the secondary bidder or another vendor as necessary.

The following are the sites which will require liquid oxygen delivery and the size of the storage tanks at those locations:

Size and number of liquid oxygen storage tanks:

- a. North District Wastewater Treatment Plant  
2575 N.E. 151 St, N. Miami Beach, FL 33160  
Size and number of Liquid Oxygen storage tanks: One (1) each: 60,000 gallon sphere  
Size and number of Liquid Oxygen storage tanks: One (1) each: 30,000 gallon tank
- b. Central District Wastewater Treatment Plant  
3989 Rickenbacker Causeway, Miami, FL 33149  
Size and number of Liquid Oxygen storage tanks: Four (4) each: 15,000 gallon tanks
- c. South District Wastewater Treatment Plant  
8950 S.W. 232 St, Goulds, FL 33170  
Size and number of Liquid Oxygen storage tanks: Four (4) each: 15,000 gallon tanks

**3.5 DELIVERY LOCATIONS**

The vendor shall deliver items to the following County facilities and locations as required.

**1. ANIMAL SERVICES**

North Dade Shelter 3599 N.W. 79 Ave., Doral, FL  
South Dade Shelter 10700 S.W. 211 St., Miami, FL

**2. MIAMI-DADE AVIATION**

McLaughlin Drive at Perimeter Road (Station 12) Building 1044  
Perimeter Road and McLaughlin  
Miami International Airport  
Fire Rescue Station #59 5600 NW 36 St., Miami, FL  
Fire Rescue Station #25 Opa Locka Airport, 14200 NW 42 Ave, Opa Locka, FL  
Fire Rescue Station #12 Miami International Airport, Midfield, Entrance at Southeast Gate  
Maintenance Warehouse 4331 NW 22 St, Bldg. 3040 Miami, FL

**3. PERMITTING ENVIRONMENT AND REGULATORY AFFAIRS**

211 W. Flagler St, Miami, FL

**4. INTERNAL SERVICES**

Shop 1	703 NW 25 St, Miami, FL
Shop 2 (Auto & Truck)	6100 SW 87 Ave, Miami, FL
Shop 3 A	18701 NE 6 Ave, Miami, FL
Shop 3 B	7900 SW 107 Ave, Miami, FL
Shop 3 C	8801 NW 58 St, Miami, FL
Shop 3 D	10820 SW 211 St. Miami, FL
Downtown Motor Pool	201 NW 1 St, Miami, FL
Police Headquarter	9109 NW 25 St, Miami, FL
South Dade Gov't Center	10740 SW 211 St, Miami, FL
Station 1	5975 Miami Lakes Dr, Miami, FL
Station 2	2950 NW 83 St, Miami, FL
Station 5	7707 SW 117 Ave, Miami, FL
Station 6	15665 Biscayne Blvd, Miami, FL
Station 8	10000 SW 142 Ave, Miami, FL
Station 9	18802 NW 27 Ave, Miami, FL

5. **MIAMI-DADE FIRE RESCUE**  
 Fire Shop Stock Rm., Bldg. #2 6100 SW 87 Ave, Miami, FL  
 Fire Supply 8010 NW 60 St, Miami, FL  
 Air Rescue Tamiami Airport (Station 24) 14150 SW 127 St., Miami, FL  
 Air Rescue Opa-Locka Airport (Station 99) 4301 NW 145 St., Miami, FL
6. **MIAMI-DADE POLICE**  
 Station No. 1 5975 Miami Lakes Dr. East, Miami Lakes, FL  
 Station No. 2 2950 NW 83 St, Miami, FL  
 Station No. 3 9101 NW 25 St, Miami, FL  
 Station No. 4 10800 SW 211 St, Miami, FL  
 Station No. 5 7707 SW 117 Ave, Miami, FL  
 Station No. 6 15665 Biscayne Blvd, Miami, FL  
 Station No. 7 Airport, Miami, FL  
 Forensic Services Bureau 9105 NW 25 St, Miami, FL
7. **PARKS, RECREATION AND OPEN SPACES**  
 10775 SW 84 St, Miami, FL / and other locations as needed.
8. **DEPARTMENT OF SOLID WASTE MANAGEMENT**  
 North Dade Landfill 21500 NW 47 Ave, Miami Gardens, FL  
 South Dade Landfill 24000 SW 97 Ave, Miami, FL  
 Mosquito Control Division 8901 NW 58 St, Miami, FL
9. **DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS**  
 RBCM 9301 NW 58 St, Miami, FL  
 Bridge Shop 15 SE 5 St, Miami, FL  
 Traffic Signals & Signs Division 7100 NW 36 St, Miami, FL
10. **WATER AND SEWER**  
 Alexander Orr Jr. WTP 6800 SW 87 Ave, Miami, FL  
 Black Point (South District WWTP) 8950 SW 232 St, Miami, FL  
 Distribution 1001 NW 11 St, Miami, FL  
 Hialeah WTP 800 W. 3 Ave, Hialeah, FL  
 Interama (North District WWTP) 2575 NE 151 St, N. Miami Beach, FL  
 John E. Preston Water Treatment Plant 1100 W. 2 Ave, Hialeah, FL  
 Virginia Key (Central District WWTP) 3989 Rickenbacker Causeway, Miami, FL  
 Westwood Lakes 801 SW 117 Ave, Miami, FL

FB-00926 MEDICAL, INDUSTRIAL GASES AND RELATED ITEMS

SECTION 4 VENDOR REQUIREMENTS

BID SUBMITTAL FORM

Per Section 2, Paragraph 2.3, award of this contract will be made to the responsive, responsible vendors who meet the following minimum qualifications:

Section 2 Special Conditions	Minimum Qualifications	
Section 2, Paragraph 2.3.1	<p>Bidder shall submit emergency contact information for 24-hour contact. (See Emergency Service Section 2, Paragraph 2.16). The vendor agrees by the submission of their bid to prioritize delivery to the Miami-Dade Fire Rescue Department in cases of emergencies or natural disasters.</p> <p>Name: _____</p> <p>Title: _____</p> <p>Address: _____</p> <p>Phone No.: _____</p>	
Section 2, Paragraph 2.3.2	<p>If the bidder shall be utilizing a third party distributor or manufacturer as the source of supply for obtaining and delivering products and/or materials required in conjunction with this Solicitation, the bidder shall supply a copy of its agreement with the supplier with bid submission. The information contained in such agreement(s) shall include, but not be limited to shipping, delivery terms, packaging requirements, and product specification sheets for each type of gas or mixture of gas being offered in accordance with the best industry standards and practices.</p>	<p>Bidder indicate if submitting Copy of Agreement: Yes ___ or No ___</p>
Section 2, Paragraph 2.3.3	<p><b><u>Group (7) Industrial Grade Liquid Oxygen (LOX) by Tank Truck ONLY:</u></b> If the bidder is providing a price for Group (7), the bidder shall provide the number of years they have been distributing LOX and their shipping point.</p> <p>Number of Years Distributing LOX: _____</p> <p>Product Manufacturer: _____</p> <p>Shipping Point: _____</p>	

# DRAFT ONLY

## FB-00926 SECTION 4 BID SUBMITTAL FORM MEDICAL, INDUSTRIAL GASES AND RELATED ITEMS

<b>GROUP (1) OXYGEN, CYLINDERS &amp; RELATED ITEMS (MEDICAL RELATED)</b>				
ITEM	EST. ANNUAL QTY	UNIT	DESCRIPTION	UNIT PRICE
1	18,304	Cylinder	Oxygen, USP, Size "D", 397 Liters Dimension 4" X 17"	\$/cyl
2	500	Each	Valve Stems, Part No. CGA 870 for Size "D", Cylinder Bottle Referenced Above	\$_____ ea
3	24	Cylinder	Medical Grade Liquid Oxygen supplied in DEWAR 180 Liter Cylinder with low pressure-50 PSI regulator only	\$/cyl
4	12	Each	Medical Grade Liquid Oxygen DEWAR USP/180 Liters @ 50 PSI Low Pressure refill	\$_____ ea
5	4,502	Cylinder	Oxygen, USP, Size "M", 122 cu. ft. Dimension 7" X 43"	\$/cyl
6	100	Each	Valve Stems, Part No. CGA 840 for Size "M", Cylinder Bottle Referenced Above Line Item 5	\$_____ ea
7	2	Cylinder	Oxygen, USP, Size "H", 224 cu. ft. Dimension 9" X 51"	\$/cyl
8	24	Cylinder	Oxygen, USP, Size "D", Carbon Fiber Wrapped Cylinder (MDFR owns the Cylinders)	\$/cyl
9	10	Each	INSTALLATION ONLY: Valve Stem for Size "D", Carbon Fiber Wrapped Cylinder Referenced Above Line Item 8 (MDFR will provide Draeger Valve P/N V-11205 with CGA540 threads)	\$_____ ea
10	500	Cylinder	Oxygen, USP, Size "E", Medical Cylinder DOT Specifications: 3AL O.D.: 4.4" X 25.3" Weight 7.4 lbs.	\$/cyl

<b>GROUP (2) NITROGEN, HYDROGEN, HELIUM AND ARGON (INDUSTRIAL TYPE)</b>				
ITEM	EST. ANNUAL QTY	UNIT	DESCRIPTION	UNIT PRICE
1	95	Cylinder	Nitrogen, UHP Grade, for Gas Chromatograph, 99.99.8%, Size "H", 230 cu. ft.	\$/cyl
2	12	Cylinder	Hydrogen, UHP, 99.999%, Size "A", 262 cu. ft. dimension 9" x 51"	\$/cyl
3	18	Cylinder	Hydrogen, UHP, 999.99%, Size "J", 260 cu. ft. 9" x 51" Zero Grade, for gas chromatographc detector fuel gas	\$/cyl

**FB-00926 SECTION 4 BID SUBMITTAL FORM MEDICAL, INDUSTRIAL GASES AND RELATED ITEMS**

4	6	Cylinder	Helium Gas (For Balloons), Size "H", 242 cu. ft.	\$_____/cyl
5	20	Cylinder	Helium Gas (For Balloons), Size "K", 220 cu. ft.	\$_____/cyl
6	225	Cylinder	Helium UHP, 99.999%, Size "J", 291 cu. ft.	\$_____/cyl
7	152	Cylinder	Helium UHP, 99.999%, Size "J", 260 cu. ft. 9" x 51" for gas chromatographic carrier gas	\$_____/cyl
8	2	Cylinder	Argon Gas (4.8) Zero-Grade Approx. 220 cu. ft.	\$_____/cyl
9	21	Cylinder	Nitrogen, UHP Grade, for Gas Chromatograph, 99 99.8%, Size "J"	\$_____/cyl
10	40	Cylinder	Nitrogen, Low Pressure, 180 liter, liquid	\$_____/cyl
11	4	Cylinder	Argon (4.8), Liquid, DEWARS, Ultra-Pure, 180-350 cu. ft.	\$_____/cyl
12	8	Cylinder	Argon, Liquid, DEWARS, Size "H", 160 Ltr Cylinder	\$_____/cyl
13	26	Cylinder	Argon, Size "1" Cylinder (Small Cylinder)	\$_____/cyl

**GROUP (3) ITEMS FOR PERMITTING, ENVIRONMENT AND REGULATORY AFFAIRS (INDUSTRIAL TYPE)**

**AIR MONITORING SECTION**

ITEM	EST. ANNUAL QTY	UNIT	DESCRIPTION	UNIT PRICE
1	4	Cylinder	<p>Nitric oxide in oxygen free nitrogen (NO in N2)                      50.00-55.00 ppm                      ~140 Cubic feet (cu. ft.)                      NO and NOx concentrations must be done to the second decimal place.                      For example, 50.05 PPM. NO and NOx concentrations cannot be equal.                      NOx concentration cannot be greater than 105% of the NO concentration.                      NO2 must be less than 1 ppm                      EPA certification period 24 months</p>	\$_____/cyl



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2	1	Cylinder	Sulfur dioxide in nitrogen (SO2 in N2) 51.00-55.00 ppm ~140 Cubic feet (cu. ft.) Concentration must be done to the second decimal place. For example, 53.77 PPM. EPA certification period 24 months	\$_____/cyl
3	1	Cylinder	Carbon monoxide in air (CO in Air) 3.0-5.0 ppm ~144 Cubic feet (cu. ft.) Concentration must be done to the first decimal place. For example, 3.6 PPM. EPA certification period 36 months	\$_____/cyl
4	1	Cylinder	Carbon monoxide in air (CO in Air) 22.0-25.0 ppm ~76 Cubic feet (cu. ft.) Concentration must be done to the first decimal place. For example, 23.6 PPM. EPA certification period 36 months	\$_____/cyl
5	1	Cylinder	Carbon monoxide in air (CO in Air) 38.0-40.0 ppm ~144 Cubic feet (cu. ft.) Concentration must be done to the first decimal place. For example, 38.9 PPM. EPA certification period 36 months	\$_____/cyl
6	1	Cylinder	Carbon monoxide in air (CO in Air) 15.0-17.0 ppm ~76 Cubic feet (cu. ft.) Concentration must be done to the first decimal place. For example, 16.2 PPM. EPA certification period 36 months	\$_____/cyl
7	1	Cylinder	Carbon monoxide in air (CO in Air) 195.0 – 200.0 ppm ~140 Cubic feet (cu. ft.) Concentration must be done to the first decimal place For example 195.6 ppm EPA Certification period 36 months	\$_____/cyl

**LABORATORY SECTION**

ITEM	EST. ANNUAL QTY	UNIT	DESCRIPTION	UNIT PRICE
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**FB-00926 SECTION 4 BID SUBMITTAL FORM MEDICAL, INDUSTRIAL GASES AND RELATED ITEMS**

1	20	Cylinder	Liquid Argon UHP Grade DEWARS, 99.999% for ICP/AES as carrier gas, 180 or 230 Liters	\$ _____/cyl
2	10	Cylinder	Argon UHP Grade, 99.999% for CVAFS as carrier gas, 336 cf	\$ _____/cyl
3	50	Cylinder	Helium UHP Grade, 99.999% for GC/MS as carrier gas, 291 cf	\$ _____/cyl
4	20	Cylinder	Nitrogen UHP Grade, 99.99% for Gas Chromatograph, 304 cf	\$ _____/cyl
5		Cylinder	Liquid Argon UHP Grade DEWARS, 99.999% for ICP/AES as carrier gas	\$ _____/cyl
6		Cylinder	Argon UHP Grade, 99.999% for CVAFS as carrier gas	\$ _____/cyl
7		Cylinder	Helium UHP Grade, 99.999% for GC/MS as carrier gas	\$ _____/cyl
8		Cylinder	Nitrogen UHP Grade, 99.99% for Gas Chromatograph	\$ _____/cyl

**GROUP (4) MONITORING CALIBRATION GAS FOR WATER & SEWER (INDUSTRIAL TYPE)**

ITEM	EST. ANNUAL QTY	UNIT	DESCRIPTION	UNIT PRICE
1	10	Cylinder	Hydrogen Sulfide, 25ppm; Carbon Monoxide, 100ppm;Pentane, 25% LEL (0-35% Vol); Oxygen, 19.00%; Nitrogen, balance, col 25 cu. ft. 1500psig @ 70 degrees F	\$ _____/cyl

**GROUP (5) NITROGEN, ARGON METHANE, AIR AND ARGON**

ITEM	EST. ANNUAL QTY	UNIT	DESCRIPTION	UNIT PRICE
1	1	Cylinder	Nitrogen, High Pressure Dewar (Liquid) 160 Liters, Size "GP45"	\$ _____/cyl
2	7	Cylinder	Argon Methane (Electron-Capture Mixture), 9" x 56", 95% Argon, 5% Methane	\$ _____/cyl
3	15	Cylinder	Air, Ultra Zero 310 cu. ft. Size "T"	\$ _____/cyl
4	26	Cylinder	Argon, CP Grade 99.99% Ultra-Pure Purity, 9" x 56", 300 cu. ft. Collision gas for mass spectrometry	\$ _____/cyl
5	6	Cylinder	Air, High Purity, 99.99%, 9" x 51"	\$ _____/cyl
6	15	Cylinder	Argon, refrigerated liquid, 2.2 non-flammable gas, 99.998% IPC Volume/wt.: 4719/787	\$ _____/cyl

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7	81	Cylinder	2.5 Methane W/Air Size "F", (Refill only)	\$_____/cyl
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**GROUP (6) WELDING GASES (INDUSTRIAL TYPE)**

ITEM	EST. ANNUAL QTY	UNIT	DESCRIPTION	UNIT PRICE
1	1,225	Cylinder	Oxygen: "K" type cylinders, USP approved Cylinder Size: 249 cu. ft. /cyl.	\$_____/cyl
2	75	Cylinder	Oxygen: "K" type Cylinders, USP approved Cylinder Size 180 cu. ft./cyl.	\$_____/cyl
3	39	Cylinder	Oxygen: "R" type Cylinders, small Cylinder Size: 125 cu. ft. /cyl.	\$_____/cyl
4	70	Cylinder	Oxygen: "2R" type Cylinders Size: 265 cu. ft. /cyl	\$_____/cyl
5	7	Cylinder	Oxygen: Size "Q" Cylinder	\$_____/cyl
6	16	Cylinder	Oxygen, "T" Cylinder	\$_____/cyl
7	6	Cylinder	Oxygen 20 Cubic Feet (cf)	\$_____/cyl
8	10	Cylinder	Oxygen, R-tank, green 20 Cubic Feet (cf)	\$_____/cyl
9	739	Cylinder	Acetylene, "WSL" type Cylinder Size: 145 cu. ft. /cyl.	\$_____/cyl
10	3	Cylinder	Acetylene, "WQ" type Cylinder Size: 60 cu ft.	\$_____/cyl
11	31	Cylinder	Acetylene, "MC" Small Size Cylinders Size: 85 cu. ft. /cyl.	\$_____/cyl
12	10	Cylinder	Acetylene 145 cu. ft.	\$_____/cyl
13	15	Cylinder	Acetylene MC-Tank 10 cu. ft.	\$_____/cyl
14	6	Cylinder	Acetylene B-Tank 40 cu. ft.	\$_____/cyl
15	63	Cylinder	Argon Gas Cylinder "2R" Size: 248-336 cu. ft. /cyl.	\$_____/cyl
16	23	Cylinder	Argon Gas 2.2 type Cylinder Size: 42 cu. ft. /cyl.	\$_____/cyl
17	2	Cylinder	Argon gas "T" type Cylinder	\$_____/cyl
18	10	Cylinder	Argon "T" 336 cu. ft.	\$_____/cyl
19	6	Cylinder	Argon "T", C25 Stargold 345 cu. ft.	\$_____/cyl

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20	30	Cylinder	C25 Argon/CO2 Gas 25% "T" type Cylinder	\$_____/cyl
21	22	Cylinder	Nitrogen, dry process 280 Cylinder Size "L" 304 cu. ft. cyl.	\$_____/cyl
22	4	Cylinder	Nitrogen, Small Cylinder, NI-55	\$_____/cyl
23	25	Cylinder	Nitrogen 224 cu. ft.	\$_____/cyl
24	6	Cylinder	Nitrogen 40 cu. ft.	\$_____/cyl
25	6	Cylinder	Nitrogen 60 cu. ft.	\$_____/cyl
26	78	Cylinder	Mixed Gas, Size: "DEY", 75% Argon + 25% CO2	\$_____/cyl
27	3	Cylinder	CO2 Gas 50 LB	\$_____/cyl
28	8	Cylinder	Stargon SS, Gas blend 336 cu. ft.	\$_____/cyl

**GROUP (7) INDUSTRIAL GRADE LIQUID OXYGEN (LOX) BY TANK TRUCK**

ITEM	EST. ANNUAL QTY	UNIT	DESCRIPTION	UNIT PRICE
1	234,000	Gallon	LOX by Tank truck as specified in Section 3, Paragraph 3.3 for Water and Sewer Department	\$_____/gal

**GROUP (8) HYDRO TESTING**

ITEM	EST. ANNUAL QTY	UNIT	DESCRIPTION	UNIT PRICE
1	300	Each	Hydro Testing for Size "D" Bottles	\$_____ ea
2	300	Each	Hydro Test of Aluminum Cylinders	\$_____ ea
3	100	Each	Hydro Test of Steel Cylinders	\$_____ ea
4	6	Each	Hydro Testing Carbon Fiber Wrapped Cylinder	\$_____ ea

**GROUP (9) OXYGEN, AVIATOR'S BREATHING CYLINDER**

ITEM	EST. ANNUAL QTY	UNIT	DESCRIPTION	UNIT PRICE
1	80	Cylinder	MIL-O-27210 Oxygen, Aviator's Breathing, Cylinder; Capacity: 336; (This item will be used to purge aircraft LOX bottles.)	\$_____/cyl

**FB-00926 SECTION 4 BID SUBMITTAL FORM MEDICAL, INDUSTRIAL GASES AND RELATED ITEMS**

**Bidders are not required to provide a price for the following optional items. Any price for the optional items will not be used for price evaluation purposes to determine the low bidder**

ITEM	DESCRIPTION EMPTY CYLINDERS	UNIT PRICE
1	Size (B)	\$_____ea
2	Size (D)	\$_____ea
3	Size (E)	\$_____ea
4	Size (H)	\$_____ea
5	Size (HH)	\$_____ea
6	Size (K)	\$_____ea
7	Dewars	\$_____ea
8	Size (M)	\$_____ea
9	Size (T)	\$_____ea
10	Size (W)	\$_____ea

**OPTIONS CYLINDER DEMURRAGE**

Prices quoted are with Cylinder Demurrage as follows:

1. Cylinders will be loaned free for thirty (30) days, thereafter

\$\_\_\_\_\_

Per day per cylinder demurrage charge will apply

2. Charge for lost cylinders:

\$\_\_\_\_\_ Each