




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 2

 List View

General Information | Contact | Default Values | Discount | Document Information | Clarification Request

Procurement Folder: 1435610

Procurement Type: Central Purchase Order

Vendor ID: VS0000046448 


Legal Name: Maktoum Supplier

Alias/DBA: Maktoum Supplier

Total Bid: \$45,188.76

Response Date: 07/18/2024 

Response Time: 20:11

Responded By User ID: Maktoum2024 

First Name: Babacar

Last Name: Lo

Email: sales@maktoumsupplier.c

Phone: 5148349257

SO Doc Code: CRFQ

SO Dept: 1400

SO Doc ID: AGR2500000002

Published Date: 7/16/24

Close Date: 7/22/24

Close Time: 13:30

Status: Closed

Solicitation Description: BIOLOGICAL SAFETY CABINETS - MOOREFIELD

Total of Header Attachments: 2

Total of All Attachments: 2



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: 1435610
Solicitation Description: BIOLOGICAL SAFETY CABINETS - MOOREFIELD
Proc Type: Central Purchase Order

Solicitation Closes	Solicitation Response	Version
2024-07-22 13:30	SR 1400 ESR07182400000000528	1

VENDOR
VS0000046448
Maktoum Supplier

Solicitation Number: CRFQ 1400 AGR2500000002
Total Bid: 45188.76000000000203726813197 Response Date: 2024-07-18 Response Time: 20:11:51
Comments:

FOR INFORMATION CONTACT THE BUYER
Larry D McDonnell
304-558-2063
larry.d.mcdonnell@wv.gov

Vendor Signature X	FEIN#	DATE
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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	TOTAL OVERALL COSTS	1.00000	EA	45188.760000	45188.76

Comm Code	Manufacturer	Specification	Model #
41103517			

Commodity Line Comments:

Extended Description:

See attached documentation for further details.



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: 1435610			Reason for Modification:
Doc Description: BIOLOGICAL SAFETY CABINETS - MOOREFIELD			
Proc Type: Central Purchase Order			
Date Issued	Solicitation Closes	Solicitation No	Version
2024-07-09	2024-07-22 13:30	CRFQ 1400 AGR2500000002	1

BID RECEIVING LOCATION

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

VENDOR

Vendor Customer Code: VS0000046448

Vendor Name : Maktoum Supplier

Address :

Street : 6892 Boulevard Gouin Est, Suite 83

City : Montreal

State : Quebec **Country :** Canada **Zip :** H1G 6M2

Principal Contact : Babacar Lo, Eng

Vendor Contact Phone: 514-834-9257 **Extension:**

FOR INFORMATION CONTACT THE BUYER

Larry D McDonnell
304-558-2063
larry.d.mcdonnell@wv.gov

Vendor Maktoum Supplier	FEIN# [REDACTED] (Canada)	DATE July 18, 2024
Signature X		

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

ADDITIONAL INFORMATION
The West Virginia Purchasing Division, is soliciting bids for the West Virginia Department of Agriculture, Moorefield Animal Health to establish a contract for the one-time purchase and assembly of Biological Safety Cabinets, per the attached documentation.

INVOICE TO	SHIP TO
AGRICULTURE DEPARTMENT OF ADMINISTRATIVE SERVICES 1900 KANAWHA BLVD E CHARLESTON WV US	AGRICULTURE DEPARTMENT OF MOOREFIELD FIELD OFFICE 60B INDUSTRIAL PARK RD MOOREFIELD WV US


Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	TOTAL OVERALL COSTS	1.00000	EA	45188.76	4 5 1 8 8 . 7 6

Comm Code	Manufacturer	Specification	Model #
41103517	BIOBASE BIOTECH CO., LTD		BSC-4FA2-NA and BSC-4FB2-NA

Extended Description:
 See attached documentation for further details.

SCHEDULE OF EVENTS		
Line	Event	Event Date
1	Vendor Questions Due by 2:00PM EST	2024-07-15

Exhibit A - Pricing Page
Biological Safety Cabinets
 CRFQ AGR25*02

		PRICING PAGE			
Section	Catalog Number	Product Description	Quantity	Unit Price	Extended Amount
3.1.1	BSC-4FA2-NA	4-foot (width opening) Biological Safety Cabinets Class II A2	3	11143.68	33431.06
3.1.2	BSC-4FB2-NA	4-foot (width opening) Biological Safety Cabinets Class II B2	1	11257.7	11257.7
3.1.2.11	N/A	Coated Steel Blower 2HP	1		
3.1.2.10	N/A	Dry Contact relay Kit	1		
3.1.3		Assembly	1	500	500
		Failure to use this form may result in disqualification		TOTAL OVERALL COST	45188.76
		Bidder / Vendor Information			
Name:		Maktoum Supplier			
Address:		6892 Boulevard Gouin Est, Montreal, QC, Canada H1H 6M2			
Phone:		514-834-9257			
Email Address:		sales@maktoumsupplier.com			
Authorized Signature:		Babacar Lo, Eng 			



The Public Health and Safety Organization

NSF Product and Service Listings

These NSF Official Listings are current as of **Thursday, January 26, 2023** at 12:15 a.m. Eastern Time. Please [contact NSF](#) to confirm the status of any Listing, report errors, or make suggestions.

Alert: NSF is concerned about fraudulent downloading and manipulation of website text. Always confirm this information by clicking on the below link for the most accurate information: <http://info.nsf.org/Certified/Biosafety/Listings.asp?Company=3R900&Standard=049&>

NSF/ANSI 49 Class II (Laminar Flow) Biosafety Cabinetry

Cabinet Style

A = Bench Unit With Base or Adjustable Legs Provided
B = Bench Unit Without Base or Adjustable Legs Provided
C = Console

Window Type

H = Hinged
S = Sliding
F = Fixed

Bench Height

NA = Not Applicable
NP = Not Provided

CBV = Concurrent Balance Value

Due to a change in nomenclature in NSF/ANSI 49 - 2002 "Class II (Laminar Flow) Biosafety Cabinetry," Class II, Type A cabinets are now referred to as Class II, Type A1 and Class II, Types B3 and A/B3 cabinets as Class II, Type A2. Class II, Types B1 and B2 cabinets remain unchanged.

Biosafety cabinet models Listed under NSF/ANSI 49 are approved for use with a power supply of 115V/60Hz, unless otherwise noted. If biosafety cabinets have been approved for use with additional power supplies, the power supply will be indicated in the Official Listing.

Jinan Biobase Biotech Co., Ltd.
North side of Jiwang Road, Mingshui

(<http://www.biobase.cc>)

Economic Dev. Zone, Zhangqiu Jinan

Shandong Province 250200

China

86 531 5867 3159

[Visit this company's website \(http://www.biobase.cc\).](http://www.biobase.cc)**Facility : # 37 China**

Model Number	Cabinet Type/Style		Inflow Velocity (fpm)	Downflow Velocity (fpm)	CBV (cfm) at Static Pressure (in w.g.)	Cabinet Width ft.	Window Ht/Type in.	Bench Ht Max in.	Acceptable Options
BSC-2FA2-GL[1]	A2	A	100 - 110	60 - 70	N/A	2	10S	28	U.V. Light
BSC-2FA2-NA[1]	A2	A	100 - 110	60 - 70	N/A	2	10S	28	U.V. Light
BSC-3FA2-GL[2]	A2	A	100 - 110	60 - 70	N/A	3	10S	27	Canopy Connection I.V. Pole U.V. Light
BSC-3FA2-NA[2]	A2	A	100 - 110	60 - 70	N/A	3	10S	27	Canopy Connection I.V. Pole U.V. Light
BSC-4FA2[3]	A2	A	100 - 110	60 - 70	N/A	4	8S	27	I.V. Pole U.V. Light
BSC-4FA2-GL[4]	A2	A	100 - 110	60 - 70	N/A	4	10S	27	I.V. Pole U.V. Light Canopy Connection
BSC-4FA2-NA[4]	A2	A	100 - 110	60 - 70	N/A	4	10S	27	I.V. Pole U.V. Light Canopy Connection
BSC-4FB2-GL[5]	B2	A	100 - 110	60 - 70	949 @ 2.1	4	8S	27	I.V. Pole U.V. Light
BSC-4FB2-NA[5]	B2	A	100 - 110	60 - 70	949 @ 2.1	4	8S	27	I.V. Pole U.V. Light
BSC-6FA2-GL[6]	A2	A	100 - 110	60 - 70	N/A	6	10S	27	I.V. Pole

BSC-6FA2-NA[6]	A2	A	100 - 110	60 - 70	N/A	6	10S	27	Canopy Connection U.V. Light I.V. Pole Canopy Connection U.V. Light
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- [1] Inflow nominal set point of 105 fpm was established with a direct airflow reading instrument. This nominal set point was confirmed using the manufacturer's recommended alternate method with thermal anemometer in a constricted (3 inch high) access opening (consult manufacturer's operator's manual for appropriate correction factor) without adjusting cabinet airflow balance. Downflow nominal set point of 65 fpm was established with I.V. Pole and U.V. Light removed. This cabinet model was Certified to NSF/ANSI 49-2020. Certified for use with power supplies of 115V/60Hz, 230V/50Hz and 230V/60Hz.
- [2] Beginning with serial number 3FA18060001. Inflow nominal set point of 105 fpm was established with a direct airflow reading instrument. This nominal set point was confirmed using the manufacturer's recommended alternate method with thermal anemometer in a constricted (3 inch high) access opening (consult manufacturer's operator's manual for appropriate correction factor) without adjusting cabinet airflow balance. Downflow nominal set point of 65 fpm was established with I.V. Pole and U.V. Light removed. This cabinet model was Certified to NSF/ANSI 49-2016. Biobase canopy model CY-3FA2-I was evaluated as a part of the NSF Certification testing procedures. Certified for use with power supplies of 115V/60Hz, 230V/50Hz and 230V/60Hz.
- [3] Inflow nominal set point of 105 fpm was established with a direct airflow reading instrument. A corresponding inflow nominal set point of 105 fpm (corrected to local air density) was confirmed using manufacturer's recommended alternate method with thermal anemometer in a constricted (3 inch high) access opening and applying appropriate correction factor without adjusting cabinet airflow balance. The downflow nominal set point of 65 fpm was established 4 inches above the bottom of the sash with the I.V. Pole and U.V. Light removed. This cabinet model was Certified to NSF/ANSI 49-2012. Approved for alternate power modes of 220V/50Hz and 220V/60Hz.
- [4] Inflow nominal set-point of 105 fpm was established with a direct airflow reading instrument. A corresponding inflow nominal set-point of 105 fpm (corrected to local

air density) was confirmed using manufacturer's recommended alternate method with thermal anemometer in a constricted (3 inch high) access opening and applying appropriate correction factor without adjusting cabinet airflow balance. The downflow nominal set-point of 65 fpm was established 4 inches above the bottom of the sash with the I.V. Pole and U.V. Light removed. This cabinet model was Certified to NSF/ANSI 49-2014. Certified for use with power supplies of 115V/60Hz, 230V/50Hz and 230V/60Hz.

- [5] Beginning with serial number 4FB18050001. Inflow nominal set point of 105 fpm was established with a direct airflow reading instrument. This nominal set point was confirmed using the manufacturer's recommended alternate method with thermal anemometer in a constricted (3 inch high) access opening (consult manufacturer's operator's manual for appropriate correction factor) without adjusting cabinet airflow balance. Downflow nominal set point of 65 fpm was established with I.V. Pole and U.V. Light removed. This cabinet model was Certified to NSF/ANSI 49-2016. Certified for use with power supplies of 115V/60Hz, 230V/50Hz and 230V/60Hz.
- [6] Inflow nominal set-point of 105 fpm was established with a direct airflow reading instrument. A corresponding inflow nominal set-point of 105 fpm (corrected to local air density) was confirmed using manufacturer's recommended alternate method with thermal anemometer in a constricted (3 inch high) access opening and applying appropriate correction factor without adjusting cabinet airflow balance. The downflow nominal set-point of 65 fpm was established 4 inches above the bottom of the sash with the I.V. Pole and U.V. Light removed. This cabinet model was Certified to NSF/ANSI 49-2014. Certified for use with power supplies of 115V/60Hz, 230V/50Hz and 230V/60Hz.

Number of matching Manufacturers is 1

Number of matching Products is 11

Processing time was 0 seconds



NSF Certified Class II A2 Biological Safety Cabinet



Display for NA series

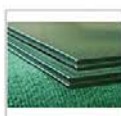


Display for GL series

Color Touch Screen
Touch operation, real-time and clearer display of various values and appointment timing function.



Exhaust Thimble canopy (Optional)



Front Window
Two-layer laminated toughened glass >6mm, Anti UV



Footmaster Caster
Universal caster with brake and leveling feet.



Stainless Steel I.V. Bar with 10 hooks



SS Water Tap & Gas Tap



Waterproof Socket



Wind Speed Sensor



Work Zone
Unibody design



UV Lamp
Emission of 253.7 nanometers for most efficient decontamination.

ADVANTAGE

1. Motorized front window.
2. 7-inch large touch color display: touch operation, real-time and clearer display of various values of the safety cabinet, dynamic air flow pattern diagram, fault alarm sound and light prompt.
3. The power-on password can be set to prevent mis-operation by irrelevant personnel.
2. EC Fan, automatically adjust the wind speed.
3. With power-off memory function, the state before power-off will be restored after power-on and there will be visual prompts and alarms.
4. The integrated design of the operation area makes it easy to disassemble and clean.
5. The cabinet is separated from the base. The height of the adjustable base can be customized.
6. Interlocking function: UV lamp and front window; UV lamp and fan; fan and front window.
7. It has the function of appointment timing, which can automatically set the time of starting and shutting down the safety cabinet and the running time of ultraviolet lamps, fan and sockets.
8. The front window closes the trigger signal, so that the sterilization and disinfection function of the ultraviolet lamp is normally turned on.
9. The one-piece hand resting surface has a larger contact area with the arm and is more comfortable. air speed adjustable with filter block.

TECHNICAL PARAMETERS

Model	BSC-4FA2	BSC-3FA2-GL BSC-3FA2-NA	BSC-4FA2-GL BSC-4FA2-NA	BSC-6FA2-GL BSC-6FA2-NA
External Size(W*D*H)	1383*775*2220mm	1087*775*2220mm	1383*775*2220mm	1873*775*2240mm
Internal Size(W*D*H)	1210*600*660 mm	910*600*660 mm	1210*600*660 mm	1700*600*660 mm
Work Surface Height	762mm	762mm	762mm	782mm
Max Opening	470mm			
Tested Opening	Safety height 200mm (8")		Safety height 254mm (10")	
Airflow Volume	Inflow	462m³/h (272cfm)	445m³/h(259cfm)	587m³/h(346cfm)
	Downflow	65%: 863m³/h (507cfm)	60%: 649m³/h(382cfm)	60%: 863m³/h(507cfm)
	Exhaust	35%: 462m³/h (272cfm)	40%:445m³/h(259cfm)	40%: 587m³/h(346cfm)
Front Window	Motorized. Two-layer laminated toughened glass ≥6mm. Anti UV.			
ULPA Filter	Two, 99.9995% efficiency at 0.12μm, filter life indicator.			
Filter Guard Type	Aluminum alloy frame, glass fiber filter paper			
Noise	NSF 49s67dB			
Illumination	≥1000Lux			
Display	Color Touch Screen			
Waterproof Socket	Two, Total consumption: ≤500W			
Tap	Water tap*1, Gas tap *1			
Ground Resistance	≤ 0.10Ω			
Power Supply	AC230V, 50/60Hz; AC115V, 60Hz, Full load Amps: 9A, BTU/Hr: 1689			
Consumption	500W	400W	500W	700W
Alarm	Abnormal airflow velocity; Filter replacement; Front window at unsafe height; High filter pressure alarm			
DC Motor	One ECM motor, 115V& 230V acceptable, Speed adjustable, high efficiency and low power consumption			
Material	Working area: 304stainless steel Frame and Decorative Plate: cold-rolled steel with anti-bacteria power coating			
UV Lamp	30W	20W	30W	40W
	Germicidal UV lamp, Emission of 253.7 nanometers for most efficient decontamination			
Illuminating Lamp	20W*2	10W*2	20W*2	23W*2
	LED lamp			
Standard Accessory	LED lamp*2, UV lamp*1, Base stand, SS water tap*1, SS gas tap*1, Drain valve, Waterproof sockets*2, Stainless Steel IV Bar with 10 hooks, Remote control			
Optional Accessory	Armrest, Airflow tester, Formalin fumigation sterilizer, Infrared sterilizer, Electric height adjustable base stand			
Package Size (W*D*H)	1540*1080*1900mm	1240*1060*1900mm	1540*1080*1900mm	2020*1080*1900mm
Gross Weight	330kg	280kg	330kg	410kg



NSF Certified Class II B2 Biological Safety Cabinet



Display for BSC-4FB2-NA



Display for BSC-4FB2-GL

Color Touch Screen
Touch operation, real-time and clearer display of various values and appointment timing function.



Wind Speed Sensor



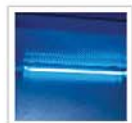
Work Zone
Work zone, made of 304 stainless steel, is surrounded by negative pressure.



Remote Control
All functions can be realized with it, making the operation much easier and more convenient.



Footmaster Caster
Universal caster with brake and leveling feet



UV Lamp
Emission of 253.7 nanometers for most efficient decontamination.



Front Window
Two-layer laminated toughened glass >5mm, anti UV



Waterproof Socket
2 waterproof sockets are located in the side wall, for optimum convenience of using small devices inside the cabinet.

ADVANTAGE

1. Motorized front window.
2. 7-inch large touch color display: touch operation, real-time and clearer display of various values of the safety cabinet, dynamic air flow pattern diagram, fault alarm sound and light prompt.
3. The power-on password can be set to prevent mis-operation by irrelevant personnel.
2. EC Fan, automatically adjust the wind speed.
3. With power-off memory function, the state before power-off will be restored after power-on and there will be visual prompts and alarms.
4. The integrated design of the operation area makes it easy to disassemble and clean.
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6. Interlocking function: UV lamp and front window; UV lamp and fan; fan and front window.
7. It has the function of appointment timing, which can automatically set the time of starting and shutting down the safety cabinet and the running time of ultraviolet lamps, fan and sockets.
8. The front window closes the trigger signal, so that the sterilization and disinfection function of the ultraviolet lamp is normally turned on.
9. The one-piece hand resting surface has a larger contact area with the arm and is more comfortable. air speed adjustable with filter block.

TECHNICAL PARAMETERS

Model	BSC-4FB2-NA	BSC-4FB2-GL
External Size(W*D*H)	1383*775*2250mm	
Internal Size(W*D*H)	1210*600*660 mm	
Tested Opening	Safety height 200mm (8")	
Max Opening	470mm	
Exhaust Airflow Volume	100%: 1320m³/h(776cfm)	
Front Window	Motorized. Two-layer laminated toughened glass ≥6mm. Anti UV	
HEPA Filter	Two, 99.9995% efficiency at 0.12um, filter life indicator	
Filter Guard Type	Aluminum alloy frame	
Noise	NSF 49≤67 dB/EN 12469≤65dB	
Illumination	≥1000Lux	
Display	Color Touch Screen	
Waterproof Socket	2, Total consumption: ≤500W	
Tap	Water tap*1, Gas tap *1	
Ground Resistance	≤ 0.10Ω	
Power Supply	AC230V, 50Hz; 115V, 60Hz, Full load Amps: 9A, BTU/Hr: 1689	
Consumption	400w	
Alarm	Abnormal airflow velocity; Filter replacement; Front window at unsafe height.	
DC Motor	One ECM motor, 115V& 230V acceptable, Speed adjustable, high efficiency and low power consumption	
Material	Working area: 304stainless steel Frame and Decorative Plate: cold-rolled steel with anti-bacteria power coating	
UV Lamp	30W Germicidal UV lamp, Emission of 253.7 nanometers for most efficient decontamination	
Illuminating Lamp	20w*2 LED lamp	
Standard Accessory	LED lamp*2, UV lamp*1, Base stand, SS water tap*1, SS gas tap*1, Drain valve, Waterproof sockets*2, Stainless Steel IV Bar with 10 hooks, Remote control	
Optional Accessory	Armrest, Airflow tester, Formalin fumigation sterilizer, Infrared sterilizer, Electric height adjustable base stand, exhaust duct	
Package Size (W*D*H)	1540*1080*1900mm	
Gross Weight	340kg	

Note: Customers need to prepare an external exhaust fan or exhaust system by themselves.