June 3, 2019

Bid Bulletin No. 2

Subject: **Supply, Delivery and Installation of Biosafety Cabinet, Fumehood and Horizontal Clean Bench under PB 19-02-12**

This bid bulletin is being issued to clarify and/or amend the technical specifications as follows:

Revised Technical Specifications:

Attached is the revised technical specifications for the complete details.

Please be guided accordingly.

GENARO S. RILLON
BAC Chairperson

Section VII. Revised Technical Specifications for PB 19-02-12

Item	Specification	Statement of Compliance
		Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidders statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the provisions of **ITB** Clause 3.1(a)(ii) and/or **GCC** Clause 2.1 (a)(ii).
1	**Supply, delivery and installation of 2 units Biosafety Cabinet** Nominal Width: 6'; Biosafety cabinet height: 2.0m to 2.5m; Nominal Sash Opening: 8" (20 cm); Base Stand: Required; Base stand height: 0.70 m to 0.85 Product Subcategory: Class II, Type A2 Biological Safety Cabinet; Protection Type: Product and Personnel; Built In Options: UV Light, Valves (Air, Vacuum, etc.), Cord, Cable & Tubing Portal;	

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	Exhaust Volume: 336-370 CFM or better; **Lighting: Ultraviolet, Fluorescent, LED or better** Features: Electronically Commutated Motor (ECM) Airflow monitoring system that communicates with the ECM to deliver the precise volume of air as required and automatically adjust as filters load without relying on airflow sensors Allows the user to program start up and shut down operations Idles the blower when the sash is fully closed Built-in interval or elapsed timer for experiment monitoring, fluorescent light or UV light control Digital clock Removable towel catch located under work surface Bright, 90-100 footcandle, glare-free fluorescent lighting located outside the contaminated work area **LCD information center with "Filter Life Remaining" bar graph or equivalent,** status line for alarm conditions and alerts to warn when **filter life diminishes to 20% and 0%** Electronic security lock (optional activation) that requires code to operate the cabinet Two electrical duplex receptacles, (single outlets on 230 volt models), located one on each side Intrinsically safe negative pressure design Fully-closing, clear 1/4" tempered safety glass sash Stainless steel inlet grille Supply and exhaust 99.99% efficient **HEPA filters or ULPA filters** Leak-tight stainless steel interior Interior-mounted, line-of-sight, full color LCD information center with easy-to-understand OS 21.7" (54 cm) maximum sash opening height and 27.0" (69 cm) viewing height Curved inlet grille for forearm support	

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	Flush-mounted stainless steel electrical receptacle covers with dampened hinges Removable, seamless type 304 stainless steel, dished work surface with lift out knobs 10° Angled sash with counterbalanced, anti-racking mechanism for ease of lifting ADA-compliant touchpad control on right-hand side post for manual activation of blower, light(s), timer, electrical receptacles, audible alarm mute and menu selection Noise level < 63 dBA Heat load 990 BTU/hour (4' models) Nominal inflow velocity of 105 feet per minute (fpm) (0.5 m/sec) Nominal downflow velocity of 55 fpm (0.3 m/sec) Approximately 70% air recirculation Powder-coated steel exterior CE conformity marking (230 volt models) Class 5 conditions per ISO 14644-1 and 2 (formerly Class 100) 10' (3 m) power cord with plug Includes: 254 nm UV lamp, ADA-compliant service fixture(s) with ball-type valve(s), and NSF-Approved Cord, Cable Portal, and local stand Inclusion: 2 units glassbead sterilizer Technical specifications: Temp. range:100-300 Temp. Accuracy: ≤±5 Heating time to Max.Temp: ≤25min Ambient Temp.: 5°C∼40 Certifications: CE marked Includes glass bead (reusable) Includes: Calibration Certificate Warranty: Two years on parts and services	
2	**Supply, delivery and installation of 4 units Fumehood (includes ducting)** Nominal Width: 4'; Fumehood height: 1.5 m to 1.7 m	

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	Blower Requirements: Integral blower included; Conformance: ASHRAE 110, ASTM E84, CAN/CSA C22.2, CE, NFPA 45, SEFA 1, UL; **Lighting: T5 fluorescent or better;** Service Fixtures: 2; Electrical: 208-230 volts, 60 Hz, 5 amps; Features: By-pass airflow design Built-in belt-driven, corrosion-resistant exhaust blower with adjustable sheave, **molded thermoplastic housing (or better as long as acid and solvent resistant)** and non-sparking, coated aluminum impeller The unit's air foil reduces energy consumption by 7-10% compared to flat air foils while its aerodynamic curve allows air to sweep the work surface for maximum containment. Openings pull inflow air from under the air foil forcing air into non-turbulent air streams. Slots on left and right side of air foil keep electrical cords out of the way Glacier white powder-coated steel exterior is durable and corrosion-resistant **One-piece molded fiberglass (or better/equivalent)** liner and pre-set baffle(s) with flame spread less than 25 per ASTM E84 Tempered safety glass vertical-rising sash with powder-coated aluminum sash handle 37.5" (95.3 cm) high sightline from the work surface to header panel allows taller users comfortable viewing while standing Removable front and side panels, and front service access panels for access to plumbing and electrical wiring Pre-wired T8 fluorescent lighting with vapor-proof design and ADA-compliant light and blower switches 10.8" ID exhaust connection Two pre-plumbed service fixtures with forged brass valves, lower right side with brass tubing for gas and lower left side with copper tubing for	

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	cold water. Components for converting either or both fixtures to air and vacuum are provided Inclusions: Spill Stopper Work Surface, Gooseneck Water Fixture Kit, P-Trap, Cupsink, Acid Storage Cabinet (Base cabinet height: 0.8 m to 1 m), Vent Kit, and Ducting **Warranty: Two years on parts and services**	
3	**Supply, delivery and installation of 8 units Horizontal Clean Bench with UV Lamp.** Laminar Flow: Horizontal; Built-in: UV lamp with UV screen; Nominal Width: 4'; Clean Bench height: 1.0 m to 1.3 m Electrical: 230 volts, 50/60 Hz, 4 amps; Features: 99.99% efficient HEPA filter, Double-gasket, negative pressure **HEPA filter leak protection or ULPA filters, ISO Class 5 air (formerly Class 100 per Federal Standard 209E) or equivalent,** Disposable prefilters (2 4' models); Variable speed built-in motor/blower(s) with vibration isolation pads; Differential pressure gauge; Type 304 brushed stainless steel work surface; Tempered safety glass side panels with utility ports with iris openings; UV-resistant, dry powder epoxy-coated steel exterior; Fluorescent lighting; Front-mounted light and blower switches; Factory installed, 254 nm UV lamp with UV screen and interlocking safety switch allowing operation only when blower and fluorescent light are off, and UV screen is closed; Compliance: CE Conformity marking; Includes: local base stand Base stand height: 0.70 m to 0.85 m	

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	Inclusion: 8 pcs glassbead sterilizer Technical specifications. Temperature range:100-300 Temperature Accuracy: ≤±5 Heating time to Max.Temp: ≤25min AmbientTemp.: 5℃~40 Certifications: CE marked Includes glass bead (reusable) Inclusion: extra prefilter **Warranty: One year on parts and service**	
	EVIDENCE for Item 1 to 3 • Brochure and **complete technical specifications [separate form indicating all the technical specifications but not limited to Brand, Model, Place of Origin, Features, Inclusions, Warranty, and Installation (if applicable)]** of the **item** being offered. • Certificate as authorized distributor or exclusive dealer coming from the principal. • Certificate of training of service engineers/technicians authorized to conduct after sales service issued by the principal supplier/brand being offered • The supplier shall declare through a written statement that the product being offered is/are repairable and that replacement parts are available for a minimum of ten (10) years after end of production	

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