

BID BULLETIN 01

Date: 26 November 2021

Project Title: Supply and Delivery of Marine Hatchery Equipment for VSU Tolosa

(GOODS-22-09)

Location: VSU Tolosa, Tanghas, Tolosa, Leyte

Bidders are hereby informed/reminded of the following addendums/amendments/clarifications:

I. LIST OF REQUIREMENTS

• ,	CAL COMPONENT ENVELOPE
Legal Documents	
1	PhilGEPS Certificate of Registration (Platinum)
	or
	a. Registration Certificate (SEC, DTI or CDA)
	b. Mayor's/Business Permit
	c. Tax Clearance
Technical Documents	
2	Statement of All On-Going Government & Private Contracts
3	Statement of Bidder's Single Largest Completed Contract (at least 50% of the ABC or Php 4,858,250.00)
	Or
	Statement of at least two (2) similar completed contracts w/ total amount of at least Php 4,858,250.00 and the largest of which should be at least PhP 2,429,125.00
4	Bid Security
5	Technical Specifications
6	SCHEDULE of Requirements/Production and delivery schedule
7	Manpower Requirements
8	After Sales service/parts from acceptance of delivered goods (at least 1 year for equipment and 3 months for supplies)
9	Original Duly Signed Omnibus Sworn Statement
Financial Documents	
10	The Supplier's Audited Financial Statements
11	Net Financial Contracting Capacity (at least Php 9,716,500.00)
	Or
	Committed Line of Credit (at least Php 971,650.00)
(2 nd Envelope) FINANCI <i>A</i>	AL COMPONENT ENVELOPE
12	Original of duly signed and accomplished Financial Bid Form
13	Original of duly signed and accomplished Price Schedule(s)
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Please take note:

In the **Technical Specifications**, bidders must state either "Comply" or "Not Comply" <u>against</u> <u>each of the individual parameters of the specifications</u> per item stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in the **Bidders Bid** and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature (**Data Sheets**), unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data, and Brand and Model 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).

II. Preparation of Electronic Bid (for bidders who prefer electronic bid submission)

- 1. Scan per document into Portable Document Format (PDF) and should be printable.
- 2. Properly label all scanned documents for prompt identification. Filename of documents, whichever are applicable to the bidder, should be as follows:

	Document	Filename (in PDF form)
1.	PhilGEPS Certificate of Registration	PhilGEPS
	(Platinum)	
2.	Registration Certificate (SEC/DTI)	Registration Certificate
3.	Mayor's/Business Permit	Mayor's-Business Permit
4.	Tax Clearance	Tax Clearance
5.	Statement of On-Going Government	Statement of On-Going
	& Private Contracts	Contracts
6.	Statement of Bidder's Single Largest	SLCC
	Completed Contract	
7.	Statement of at least two (2) similar	Statement of Completed
	completed contracts	Contracts
8.	Bid Security	Bid Security
	Technical Specifications	Technical Specifications
10.	SCHEDULE of	Schedule of Requirements
	Requirements/Production and	
	delivery schedule	
	Manpower Requirements	Manpower Requirements
12.	After Sales service/parts	After Sales
13.	Omnibus Sworn Statement	Omnibus Sworn Statement
14.	Audited Financial Statements	Audited Financial Statements
15.	Net Financial Contracting Capacity	NFCC
16.	Committed Line of Credit	CLC
17.	Bid Form	Bid Form
18.	Price Schedule	Price Schedule

3. Create two (2) folders that are password-protected. The first folder should contain all requirements under Technical Component checklist as presented under Section VIII.



The second folder should contain all requirements under Financial Component checklist.

- 4. Compress the two (2) folders and name as follows: a) first folder: **Technical Documents**, b) second folder: **Financial Documents**.
- 5. Email the 2 compressed folders to Ms. Jessamine C. Ecleo at <u>jessamine.ecleo@vsu.edu.ph</u> before the deadline.

III. Changes in the Bidding Documents

Original

Section I. Invitation to Bid

complete set of Bidding Documents may be acquired by interested Bidders on 15 November - 06 December 2021 until 8:30 AM from the given address and website(s) below and upon payment of the applicable fee Bidding for the Documents. pursuant to the latest Guidelines issued by the GPPB, in the amount of Ten Thousand Pesos (PhP 10,000.00). The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person, by facsimile, or through electronic means.

(Amendment)

A complete set of Bidding Documents may be acquired by interested Bidders on 15 November - 06 December 2021 until 8:30 AM from the given address and website(s) below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of Ten Thousand Pesos (PhP 10,000.00). The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person, by facsimile, or through electronic means:

The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person, by facsimile, or through electronic means.

The Bidders may deposit the payment for the bidding documents to the Visayas State University Landbank Account with the following details:

Account Name: Visayas State University Fund

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Account Number: 3572-1000-13

Then send the deposit slip to jessamine.ecleo@vsu.edu.ph

11. This procurement project is part of the early procurement activities (EPA) of VSU for 2022 projects. Procurement activities from advertisement until recommendation of award to the HoPE shall be conducted in 2021 but issuance of award to the winning bidder(s) shall be done in 2022 upon the release of 2022 General Appropriations Act from

(Emphasis)



DBM.	
Section II. Instructions to Bidders	
15. Sealing and Marking of Bids	(Additional Instructions)
	Bidders are requested to submit three (3) copies of its bid – 1 Original, Copy 1, and Copy 2.
	For filing purposes, the bidders are urged to use Red envelopes for its Technical and Financial Component envelopes, including the Mother (outer) Envelope.

IV. Revised List of Goods and Technical Specifications

- Some Specifications were added (in red font) and/or deleted (in blue font)
- Some Quantities and Unit Prices (ABC) were changed

Item No.	Unit	Item Description	Qty	ABC/Unit	Total ABC
1	units	Algae Culture Rack	2	120,000.00	240,000.00
1	units	 Algae Culture Rack Made of tubular mild steel pipes flawlessly constructed duly powder coated. (For longer life so as to provide the structure due protection from issues like corrosion for durability). Each rack of size 48"(Length)x18" (depth) is covered with thick transparent glass. Distance between shelves to shelves is 15". Platform surface is of at least 3mm thick transparent glass-delete powder coated steel plate. Four 40-watt fluorescent light (with electronic ballast). 4 x 25 watt incandescent lamps in each shelf with switching arrangement. UV germicidal light are fitted inside the rack Fluorescent tubes chocks and ultra violet germicidal tube chocks are fitted outside of rack. All control panels are fitted on the sides of tissue culture racks comprising of on/off switch of Fluorescent tubes and UV tubes the whole rack is provided with four number castor wheels at the bottom for easy 	2	120,000.00	240,000.00
		mobility to any place. Lockable castor wheel; Total no. of racks: 4; Total no. of illuminated racks: 4			
		with after sales service and warranty			



EKS					
2	unit	Bacteria Colony Counter-deleted			
3	units	Fiberglass, circular flat bottom container (1 ton)	-deleted		
4	lot	Laboratory Chair (1 Set of 12 pcs)	1	180,000.00	180,000.00
		18 in. Adjustable Chrome Foot ring			
		Adjustable Contoured Back			
		Pneumatic Height Adjustment, Waterfall Seat			
	1	Polyurethane			
	1	• 22 in. to 31 in. Nominal Seat Height Range			
		with caster wheel, not levelling bolt			
		with after sales service and warranty			
		with after sales service and warranty			
	 				
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5	units	Filled Oxygen Tank (50 lbs)	2	40,000.00	80,000.00
		Include Control Valve			
		Include Meter Check			
		Include Filling Pump			
		with after sales service and warranty			
6	units	Plankton Net (20µm Mesh)-deleted			
7	units	Shelving (Heavy Duty)	2	25,000.00	50,000.00
	 	• 4 shelf unit		,	,
	1	1000 lb. capacity per shelf			
	 	60 inches width x 24 inches depth x 70 inches height			
	 	Electrostatic coating of steel; Frame is 19 gauge cold			
		rolled steel			
•		TOHOU SIEGI			
		with after sales service and warranty			



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8	units	Submersible Pump	2	20,000.00	40,000.00
		Single Phase 1HP			
		Semi-open impeller designed for the general			
		dewatering pumping use			
		Stainless Steel SUS# 304 Motor Casing			
		Stainless Steel SUS# 304 Strainer			
		with after sales service and warranty			
9	unit	Dissolved Oxygen Portable Meter	1	83,000.00	83,000.00
		AC Adapter: Universal 50-60 Hz, 100-240 VAC power			
		adapter (Paramatar), (Correller			
		Accuracy (Barometer): ±6mmHg			
		Accuracy (Polarographic DO): ±0.2mg/L or ±2% of			
		reading, whichever is greater Accuracy (RDO): ±0.1mg/L up to 8mg/L, ±0.2mg/L			
		from 8 to 20mg/L, ±10% of reading up to 50mg/L			
		Accuracy (Temperature: ±0.1°C			
		Alarm Output: Calibration due alarm (fixed 12 hour)			
		Barometric Pressure Correction: 400 to 850mmHg,			
-	1	automatic using built-in barometer or manual entry			
		Battery Life: 800 hours			
	1	Battery Type: Four AA (included)			
		Calibration Modes: Water-saturated air, air-saturated			
	1	water, manual (Winkler titration), zero point			
		Display Type: Graphic LCD with Backlight			
	-	with after sales service and warranty			
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10	unit	Portable pH Meter	1	51,550.00	51,550.00
		AC Adapter: Universal 50-60 Hz, 100-240 VAC power adapter			
		Accuracy (mV): ±0.2 mV or ±0.05% of reading whichever is greater			
		Accuracy (pH): ±0.002			
		Alarm Output: Calibration due alarm (fixed 12 hour)			
		Battery Life: 800 hr.			
		Calibration: pH, relative mV (RmV), ORP and			
		temperature			
		Calibration: Points 1 to 5			
		Data Management Details Transfer single, range or all data points to printer or computer			
		Includes: Star A221-delete pH meter, 8107UWMMD			
		ROSS Ultra gel-filled epoxy-body pH/ATC electrode			
		with 3m cable, pH 4/7/10 buffer and rinse pouches,			
		ROSS storage solution, protective meter armor, hard-			
		sided carrying case, 4 AA batteries, computer cable			
		Inputs: BNC (pH or ORP electrode), pin-tip (reference electrode), 8 pin MiniDIN (ATC temperature probe)			
		Isopotential: Point 7.000pH			
		with after sales service and warranty			
		With alter ealed convice and warranty			
		Bear Town Co.			
		7.00			
		© €			
		1374			
11	unit	Premium Fiber Glass Fish Tank	2	65,000.00	130,000.00
		Rectangular shape			
		at least 4,600 liter capacity			
		Tank size (feet): 11 x 5 x 3 = RM 5300-delete			
		Filter size: 5 feet = RM 450-delete			
		with after sales service and warranty			
		fiber glass frame, with clear glass front side(one side			
		only) for observation			
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12	unit	Rectangular Tanks (180 × 60 × 48 in)-deleted (at least 2m x 1m x .5m, L x W x H) 1 ton	17	35,000.00	595,000.00
		Surface Treatment: Gel Coat			
		Color: Blue			
		Thickness: at least 6mm			
		Usage: Fish Tank			
		Molding Method: Resin Transfer Molding			
		Material: Fiberglass			
		Fiber Type: GFRP			
		Type: Epoxy FRP			
		Accessory 1: Foot			
		Accessory 2: Flanges			
		Shape: Rectangle			
		Specification: 1 ton capacity			
		with after sales service and warranty			
13	unit	Rectangular Tanks (180 × 60 × 48 in)-deleted	15	60,000.00	900,000.00
13	"""	(at least 2m x 1m x 1m, L x W x H) 2 tons		00,000.00	000,000.00
13	uiii	(at least 2m x 1m x 1m, L x W x H) 2 tons Surface Treatment: Gel Coat		00,000.00	
13	u i i			00,000.00	
13		Surface Treatment: Gel Coat		00,000.00	
13		Surface Treatment: Gel Coat Color: Blue		00,000.00	
13	Gilli	Surface Treatment: Gel Coat Color: Blue Thickness: at least 6mm		00,000.00	
13		Surface Treatment: Gel Coat Color: Blue Thickness: at least 6mm Usage: Fish Tank		00,000.00	
13		Surface Treatment: Gel Coat Color: Blue Thickness: at least 6mm Usage: Fish Tank Molding Method: Resin Transfer Molding		00,000.00	
13		Surface Treatment: Gel Coat Color: Blue Thickness: at least 6mm Usage: Fish Tank Molding Method: Resin Transfer Molding Material: Fiberglass		00,000.00	
13		Surface Treatment: Gel Coat Color: Blue Thickness: at least 6mm Usage: Fish Tank Molding Method: Resin Transfer Molding Material: Fiberglass Fiber Type: GFRP		00,000.00	
13		Surface Treatment: Gel Coat Color: Blue Thickness: at least 6mm Usage: Fish Tank Molding Method: Resin Transfer Molding Material: Fiberglass Fiber Type: GFRP Type: Epoxy FRP		00,000.00	
13		Surface Treatment: Gel Coat Color: Blue Thickness: at least 6mm Usage: Fish Tank Molding Method: Resin Transfer Molding Material: Fiberglass Fiber Type: GFRP Type: Epoxy FRP Accessory 1: Foot		00,000.00	
13		Surface Treatment: Gel Coat Color: Blue Thickness: at least 6mm Usage: Fish Tank Molding Method: Resin Transfer Molding Material: Fiberglass Fiber Type: GFRP Type: Epoxy FRP Accessory 1: Foot Accessory 2: Flanges		00,000.00	
13		Surface Treatment: Gel Coat Color: Blue Thickness: at least 6mm Usage: Fish Tank Molding Method: Resin Transfer Molding Material: Fiberglass Fiber Type: GFRP Type: Epoxy FRP Accessory 1: Foot Accessory 2: Flanges Shape: Rectangle Specification: 2 tons capacity		00,000.00	
13		Surface Treatment: Gel Coat Color: Blue Thickness: at least 6mm Usage: Fish Tank Molding Method: Resin Transfer Molding Material: Fiberglass Fiber Type: GFRP Type: Epoxy FRP Accessory 1: Foot Accessory 2: Flanges Shape: Rectangle		00,000.00	
13		Surface Treatment: Gel Coat Color: Blue Thickness: at least 6mm Usage: Fish Tank Molding Method: Resin Transfer Molding Material: Fiberglass Fiber Type: GFRP Type: Epoxy FRP Accessory 1: Foot Accessory 2: Flanges Shape: Rectangle Specification: 2 tons capacity			
13		Surface Treatment: Gel Coat Color: Blue Thickness: at least 6mm Usage: Fish Tank Molding Method: Resin Transfer Molding Material: Fiberglass Fiber Type: GFRP Type: Epoxy FRP Accessory 1: Foot Accessory 2: Flanges Shape: Rectangle Specification: 2 tons capacity			
13		Surface Treatment: Gel Coat Color: Blue Thickness: at least 6mm Usage: Fish Tank Molding Method: Resin Transfer Molding Material: Fiberglass Fiber Type: GFRP Type: Epoxy FRP Accessory 1: Foot Accessory 2: Flanges Shape: Rectangle Specification: 2 tons capacity			
13		Surface Treatment: Gel Coat Color: Blue Thickness: at least 6mm Usage: Fish Tank Molding Method: Resin Transfer Molding Material: Fiberglass Fiber Type: GFRP Type: Epoxy FRP Accessory 1: Foot Accessory 2: Flanges Shape: Rectangle Specification: 2 tons capacity			
13		Surface Treatment: Gel Coat Color: Blue Thickness: at least 6mm Usage: Fish Tank Molding Method: Resin Transfer Molding Material: Fiberglass Fiber Type: GFRP Type: Epoxy FRP Accessory 1: Foot Accessory 2: Flanges Shape: Rectangle Specification: 2 tons capacity			
13		Surface Treatment: Gel Coat Color: Blue Thickness: at least 6mm Usage: Fish Tank Molding Method: Resin Transfer Molding Material: Fiberglass Fiber Type: GFRP Type: Epoxy FRP Accessory 1: Foot Accessory 2: Flanges Shape: Rectangle Specification: 2 tons capacity			
13		Surface Treatment: Gel Coat Color: Blue Thickness: at least 6mm Usage: Fish Tank Molding Method: Resin Transfer Molding Material: Fiberglass Fiber Type: GFRP Type: Epoxy FRP Accessory 1: Foot Accessory 2: Flanges Shape: Rectangle Specification: 2 tons capacity			



14	unit	Rectangular Tanks (180 × 60 × 48 in)-deleted (at least 3m x 21m x 1m, L x W x H) – 5 tons	15	120,000.00	1,800,000.00
		Surface Treatment: Gel Coat			
		Color: Blue			
		Thickness: 6mm			
		Usage: Fish Tank			
		Molding Method: Resin Transfer Molding			
		Material: Fiberglass			
		Fiber Type: GFRP			
		Type: Epoxy FRP Accessory 1: Foot			
		Accessory 1: Foot Accessory 2: Flanges			
		Shape: Rectangle			
		Specification: 5 tons capacity			
		with after sales service and warranty			
15	unit	Rectangular Tanks (180 × 60 × 48 in)-deleted			
16	unit	Touch Thermal Cycler- deleted			
17	unit	Histology Microtome - deleted			
18	unit	Water Bath & Slide Warmer- deleted			
19	set	Embedding Tissue Cassette- deleted			
20	unit	Cassette Storage Cabinet- deleted			
21	unit	Histology Equipment Automatic Tissue Process	or- del	eted	
22	unit	Precision Texture Analyzer - deleted			
23	unit	Diode array (DA)- NIR Multi-Purpose Analyzer - 0	deleted		
24	unit	Laboratory Shaker - deleted			
25	unit	Dry Type Fish Feed Extruder Machine To Make Floating Fish Feed or Sinking Feed (with installation) - deleted			
26	unit	Sieve Shaker - deleted			
27	set	Soil Sampling Sieve Set, Stainless Steel, 2" Heig	ht-dele	eted	
28	unit	Muffle Furnace -deleted			
29	unit	Analytical Balance (220g x 0.1mg)- deleted			
30	unit	Mini PCR Plate Spinner for Two PCR Plates, 115V	1	50,950.00	50,950.00
		Speed: at least 2,500 rpm			
		Maximum capacity: 2 standard PCR or microtiter plates			
		Ambient operating range: 4° to 35°C			
		Weight: 3.3 lb/1.5 kg-delete			



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	1	with after sales service and warranty			
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		- Arriva			
31	unit	Digital Dry Bath - deleted			
32	unit	Autoclave -deleted			
33	unit	Gradient Thermal Cycler	1	600,000.00	600,000.00
33	unit	Thermal Cycler:	'	000,000.00	000,000.00
		Sample capacity: 96 x 0.2 ml tubes, 0.2 ml tube strips,			
		or 1 x 96-well plate			
		Maximum ramp rate, °C/sec: 4	+		_
		Average ramp rate, °C/sec: 2.5	NA		_
		Temperature range: 4–100°C	1	N.	_
			- 1/1/1/1		_
		Temperature accuracy: ±0.5°C of programmed target	- 1		<u> </u>
		Temperature uniformity: ±0.5°C well-to-well within 30			
		sec of arrival at target temperature Input power: 100–150 VAC, 50–60 Hz; 220–240 VAC, 50–60 Hz; 700 W			
					_
				1 11	
		maximum		1	
		Display: 5.7" VGA color touch screen			
		Port: 1 USB A			
		Memory: 500 typical programs; unlimited with USB			
		flash drive expansion			
		Gradient:			
		Gradient range: 30–100°C			
		Temperature differential range: 1–25°C			
		with after sales service and warranty			
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34	unit	Microcentrifuge - deleted			
		N 0 4 1 4 4	<u> </u>		
35	unit	Nano Spectrophotometer	1	1,500,000.00	1,500,000.00
		Wavelength:			
		Wavelength Range: 198 to 1000nm			
		Wavelength Accuracy: ±2nm			
		Spectral Bandwidth: 5nm			
		Path Length: 0.2 or 0.5mm (auto-ranging)			
		Photometrics:			
		Absorbance Range 15 to 125A (10mm equivalent)			
		Absorbance Accuracy ±2% at 260nm			
		Absorbance Precision <0.005A between 0 and 1A (at			
	1	1	1	[



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		260nm and 0.5mm)			
		Concentration/ Quantitation:			
		Maximum Concentration: 6,000 ng/µl (dsDNA) (at			
		0.2mm)			
		Detection Limit: 2ng/μl (dsDNA) (at 0.5mm)			
		Measurement Time: <6.5 seconds			
		Minimum Sample Size: 0.5µl (at 0.2mm) 1.0µl (at			
		0.5mm)			
		Maximum Sample Size: 5µl			
		DNA measurement modes: dsDNA, ssDNA, RNA,			
		Oligonucleotides, 260/280, 260/230, Variable ratio			
		Protein measurement modes: BCA, Bradford, Lowry,			
		Biuret, Direct UV			
		with after sales service and warranty			
		July!			
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36	unit	UV/Vis Spectrophotometer - deleted			
36	unit	UV/Vis Spectrophotometer - deleted			
36	unit	Gel Documentation System	1	2,000,000.00	2,000,000.00
		Gel Documentation System	1	2,000,000.00	2,000,000.00
		Gel Documentation System Maximum sample size: 28 x 36 cm	1	2,000,000.00	2,000,000.00
		Gel Documentation System Maximum sample size: 28 x 36 cm Maximum image area: 25 x 26 cm	1	2,000,000.00	2,000,000.00
		Gel Documentation System Maximum sample size: 28 x 36 cm Maximum image area: 25 x 26 cm Excitation source: Trans UV 302, 254, 365 nm & White, Epi-White light	1	2,000,000.00	2,000,000.00
		Gel Documentation System Maximum sample size: 28 x 36 cm Maximum image area: 25 x 26 cm Excitation source: Trans UV 302, 254, 365 nm &	1	2,000,000.00	2,000,000.00
		Gel Documentation System Maximum sample size: 28 x 36 cm Maximum image area: 25 x 26 cm Excitation source: Trans UV 302, 254, 365 nm & White, Epi-White light Illumination control: 3 modes (trans-UV, trans white, epi-white) Detector: CCD	1	2,000,000.00	2,000,000.00
		Gel Documentation System Maximum sample size: 28 x 36 cm Maximum image area: 25 x 26 cm Excitation source: Trans UV 302, 254, 365 nm & White, Epi-White light Illumination control: 3 modes (trans-UV, trans white, epi-white)	1	2,000,000.00	2,000,000.00
		Gel Documentation System Maximum sample size: 28 x 36 cm Maximum image area: 25 x 26 cm Excitation source: Trans UV 302, 254, 365 nm & White, Epi-White light Illumination control: 3 modes (trans-UV, trans white, epi-white) Detector: CCD CCD resolution (H x V): 768 x 494 RS-170 752 x 582 CCIR	1	2,000,000.00	2,000,000.00
		Gel Documentation System Maximum sample size: 28 x 36 cm Maximum image area: 25 x 26 cm Excitation source: Trans UV 302, 254, 365 nm & White, Epi-White light Illumination control: 3 modes (trans-UV, trans white, epi-white) Detector: CCD CCD resolution (H x V): 768 x 494 RS-170 752 x 582 CCIR Pixel size in microns (H x V): 8.4 x 9.8	1	2,000,000.00	2,000,000.00
		Gel Documentation System Maximum sample size: 28 x 36 cm Maximum image area: 25 x 26 cm Excitation source: Trans UV 302, 254, 365 nm & White, Epi-White light Illumination control: 3 modes (trans-UV, trans white, epi-white) Detector: CCD CCD resolution (H x V): 768 x 494 RS-170 752 x 582 CCIR	1	2,000,000.00	2,000,000.00
		Gel Documentation System Maximum sample size: 28 x 36 cm Maximum image area: 25 x 26 cm Excitation source: Trans UV 302, 254, 365 nm & White, Epi-White light Illumination control: 3 modes (trans-UV, trans white, epi-white) Detector: CCD CCD resolution (H x V): 768 x 494 RS-170 752 x 582 CCIR Pixel size in microns (H x V): 8.4 x 9.8	1	2,000,000.00	2,000,000.00
		Gel Documentation System Maximum sample size: 28 x 36 cm Maximum image area: 25 x 26 cm Excitation source: Trans UV 302, 254, 365 nm & White, Epi-White light Illumination control: 3 modes (trans-UV, trans white, epi-white) Detector: CCD CCD resolution (H x V): 768 x 494 RS-170 752 x 582 CCIR Pixel size in microns (H x V): 8.4 x 9.8 Filter holder: 2 positions (1 Emmision Filter, 1 Chemi)	1	2,000,000.00	2,000,000.00
		Gel Documentation System Maximum sample size: 28 x 36 cm Maximum image area: 25 x 26 cm Excitation source: Trans UV 302, 254, 365 nm & White, Epi-White light Illumination control: 3 modes (trans-UV, trans white, epi-white) Detector: CCD CCD resolution (H x V): 768 x 494 RS-170 752 x 582 CCIR Pixel size in microns (H x V): 8.4 x 9.8 Filter holder: 2 positions (1 Emmision Filter, 1 Chemi) Emission filters: 1 included (amber), 4 optional Dynamic range: 1.8 Orders	1	2,000,000.00	2,000,000.00
		Gel Documentation System Maximum sample size: 28 x 36 cm Maximum image area: 25 x 26 cm Excitation source: Trans UV 302, 254, 365 nm & White, Epi-White light Illumination control: 3 modes (trans-UV, trans white, epi-white) Detector: CCD CCD resolution (H x V): 768 x 494 RS-170 752 x 582 CCIR Pixel size in microns (H x V): 8.4 x 9.8 Filter holder: 2 positions (1 Emmision Filter, 1 Chemi) Emission filters: 1 included (amber), 4 optional Dynamic range: 1.8 Orders Pixel density (gray levels): 8 bit (256 gray levels)	1	2,000,000.00	2,000,000.00
		Gel Documentation System Maximum sample size: 28 x 36 cm Maximum image area: 25 x 26 cm Excitation source: Trans UV 302, 254, 365 nm & White, Epi-White light Illumination control: 3 modes (trans-UV, trans white, epi-white) Detector: CCD CCD resolution (H x V): 768 x 494 RS-170 752 x 582 CCIR Pixel size in microns (H x V): 8.4 x 9.8 Filter holder: 2 positions (1 Emmision Filter, 1 Chemi) Emission filters: 1 included (amber), 4 optional Dynamic range: 1.8 Orders	1	2,000,000.00	2,000,000.00
		Gel Documentation System Maximum sample size: 28 x 36 cm Maximum image area: 25 x 26 cm Excitation source: Trans UV 302, 254, 365 nm & White, Epi-White light Illumination control: 3 modes (trans-UV, trans white, epi-white) Detector: CCD CCD resolution (H x V): 768 x 494 RS-170 752 x 582 CCIR Pixel size in microns (H x V): 8.4 x 9.8 Filter holder: 2 positions (1 Emmision Filter, 1 Chemi) Emission filters: 1 included (amber), 4 optional Dynamic range: 1.8 Orders Pixel density (gray levels): 8 bit (256 gray levels)	1	2,000,000.00	2,000,000.00
		Gel Documentation System Maximum sample size: 28 x 36 cm Maximum image area: 25 x 26 cm Excitation source: Trans UV 302, 254, 365 nm & White, Epi-White light Illumination control: 3 modes (trans-UV, trans white, epi-white) Detector: CCD CCD resolution (H x V): 768 x 494 RS-170 752 x 582 CCIR Pixel size in microns (H x V): 8.4 x 9.8 Filter holder: 2 positions (1 Emmision Filter, 1 Chemi) Emission filters: 1 included (amber), 4 optional Dynamic range: 1.8 Orders Pixel density (gray levels): 8 bit (256 gray levels)	1	2,000,000.00	2,000,000.00
		Gel Documentation System Maximum sample size: 28 x 36 cm Maximum image area: 25 x 26 cm Excitation source: Trans UV 302, 254, 365 nm & White, Epi-White light Illumination control: 3 modes (trans-UV, trans white, epi-white) Detector: CCD CCD resolution (H x V): 768 x 494 RS-170 752 x 582 CCIR Pixel size in microns (H x V): 8.4 x 9.8 Filter holder: 2 positions (1 Emmision Filter, 1 Chemi) Emission filters: 1 included (amber), 4 optional Dynamic range: 1.8 Orders Pixel density (gray levels): 8 bit (256 gray levels)	1	2,000,000.00	2,000,000.00
		Gel Documentation System Maximum sample size: 28 x 36 cm Maximum image area: 25 x 26 cm Excitation source: Trans UV 302, 254, 365 nm & White, Epi-White light Illumination control: 3 modes (trans-UV, trans white, epi-white) Detector: CCD CCD resolution (H x V): 768 x 494 RS-170 752 x 582 CCIR Pixel size in microns (H x V): 8.4 x 9.8 Filter holder: 2 positions (1 Emmision Filter, 1 Chemi) Emission filters: 1 included (amber), 4 optional Dynamic range: 1.8 Orders Pixel density (gray levels): 8 bit (256 gray levels)	1	2,000,000.00	2,000,000.00
		Gel Documentation System Maximum sample size: 28 x 36 cm Maximum image area: 25 x 26 cm Excitation source: Trans UV 302, 254, 365 nm & White, Epi-White light Illumination control: 3 modes (trans-UV, trans white, epi-white) Detector: CCD CCD resolution (H x V): 768 x 494 RS-170 752 x 582 CCIR Pixel size in microns (H x V): 8.4 x 9.8 Filter holder: 2 positions (1 Emmision Filter, 1 Chemi) Emission filters: 1 included (amber), 4 optional Dynamic range: 1.8 Orders Pixel density (gray levels): 8 bit (256 gray levels)	1	2,000,000.00	2,000,000.00
		Gel Documentation System Maximum sample size: 28 x 36 cm Maximum image area: 25 x 26 cm Excitation source: Trans UV 302, 254, 365 nm & White, Epi-White light Illumination control: 3 modes (trans-UV, trans white, epi-white) Detector: CCD CCD resolution (H x V): 768 x 494 RS-170 752 x 582 CCIR Pixel size in microns (H x V): 8.4 x 9.8 Filter holder: 2 positions (1 Emmision Filter, 1 Chemi) Emission filters: 1 included (amber), 4 optional Dynamic range: 1.8 Orders Pixel density (gray levels): 8 bit (256 gray levels)	1	2,000,000.00	2,000,000.00
		Gel Documentation System Maximum sample size: 28 x 36 cm Maximum image area: 25 x 26 cm Excitation source: Trans UV 302, 254, 365 nm & White, Epi-White light Illumination control: 3 modes (trans-UV, trans white, epi-white) Detector: CCD CCD resolution (H x V): 768 x 494 RS-170 752 x 582 CCIR Pixel size in microns (H x V): 8.4 x 9.8 Filter holder: 2 positions (1 Emmision Filter, 1 Chemi) Emission filters: 1 included (amber), 4 optional Dynamic range: 1.8 Orders Pixel density (gray levels): 8 bit (256 gray levels)	1	2,000,000.00	2,000,000.00
		Gel Documentation System Maximum sample size: 28 x 36 cm Maximum image area: 25 x 26 cm Excitation source: Trans UV 302, 254, 365 nm & White, Epi-White light Illumination control: 3 modes (trans-UV, trans white, epi-white) Detector: CCD CCD resolution (H x V): 768 x 494 RS-170 752 x 582 CCIR Pixel size in microns (H x V): 8.4 x 9.8 Filter holder: 2 positions (1 Emmision Filter, 1 Chemi) Emission filters: 1 included (amber), 4 optional Dynamic range: 1.8 Orders Pixel density (gray levels): 8 bit (256 gray levels)	1	2,000,000.00	2,000,000.00
		Gel Documentation System Maximum sample size: 28 x 36 cm Maximum image area: 25 x 26 cm Excitation source: Trans UV 302, 254, 365 nm & White, Epi-White light Illumination control: 3 modes (trans-UV, trans white, epi-white) Detector: CCD CCD resolution (H x V): 768 x 494 RS-170 752 x 582 CCIR Pixel size in microns (H x V): 8.4 x 9.8 Filter holder: 2 positions (1 Emmision Filter, 1 Chemi) Emission filters: 1 included (amber), 4 optional Dynamic range: 1.8 Orders Pixel density (gray levels): 8 bit (256 gray levels)	1	2,000,000.00	2,000,000.00



38	unit	Micropipettes	3	22,000.00	66,000.00
		Compatible Tips: Flex 10, 10, 50			
		Increments: 0.002µL			
		For Use With: Flex 10, 10, 50			
		Number of Channels: 1			
		Volume (Metric): 0.2 to 2 µL			
		with after sales service and warranty			
39	unit	Electrophoresis System	1	300,000.00	300,000.00
		Power Supply:			
		Overall Dimensions: at least 75 mm (B) x 62 mm (H) x 170 mm (L)			
		Weight: 410 g-delete Input Voltage: AC100-240V (Internationally compatible, 50/60 Hz)			
		Output Voltage: 18 V, 25 V, 35 V, 50 V, 70 V, 100 V and 135 V.			
		Timer: Can be set between 0 and 99 min. and cont. mode. Temporary shutdown supported			
		Memory function: Automatic memory (the last used V & T) One-Gel Tray:			7.000
		Overall dimensions small tray: 130 mm (B) x 16,5 mm (H) x 59,5 mm (L)	Vinian.		
		Overall dimensions large tray: 130 mm (B) x 24 mm (H) x 122 mm (L)			(C)
		Quantity: 2 small gel trays and 1 large gel tray		3	
		Combs:			
		Number of wells: 13 or 26	1111	A CAUTION	The Lease Little
		Distances: 13 wells: 9 mm	bab		
		26 wells: 4.5 mm			
		Number of combs: 4, can be used on both sides (all combs can be used for 13 or 26 pockets)			
		Material: Heat resistant (up to 100 ° C hot solution can be used)			
	<u> </u>	with after sales service and warranty			



K.					
40	unit	Homogenizer (Digital, 1 – 2000 ml)	1	400,000.00	400,000.00
41 42		Min Sample Size (mL): 1			
		Min Sample Size (Liters): 0.001			
		Max Sample Size (mL): 2000			
		Max Sample Size (Liters): 2			
		Max Speed (rpm): 25000			
		Min Speed (rpm): 500			
		Wattage (Input): 800			
		Wattage (Output): 500			
		Power (VAC): 220			
		Power (Hz): 50/60			
		with after sales service and warranty			
	unit	Laminar Flow Hood-deleted Real-time PCR Machine – deleted			
43	unit	Fiberglass, Circular Tank + 2" Pipe & Valve (2.5 tons)	10	65,000.00	650,000.00
				TOTAL:	9,716,500.00

(Sgd.) **DILBERTO O. FERRAREN**BAC Chairman