



PURCHASE REQUEST

PR #: GF-2021-10-01448

Date: 10-26-2021

Category: **Laboratory Equipment**Dept./Office: **DPBG**Section/End-User: **Darlyn A. Dupal**

Project Title/Code: **Completion of Lecture Hall and
 Classroom Rehabilitation of Breeding Nursery Seed
 Storage Facility and Tissue Culture Laboratory of the
 Department of Plant Breeding and Genetics**

Item #	Funding Source: General Fund - CO	Item Description	Unit	Qty	Unit Cost	PAR/ICS	Total Cost
1		Autoclavable Pipetter of Single Channel, 0.2-2 µl ()	pc	1	17,000.00		17,000.00
Specification: with stainless steel ejector volume in micro liter (range: 0.2 - 2) increment: 0.002 micro liter systematic error in micro liter (range: ±0.024 to ±0.03) random error in micro liter (range: ±0.012 to ±0.014) systematic error percentage (range: ±12, to ±1.5) random error in CV (range: ±6 to ±0.7) each pipette should be calibrated according to ISO 8655 standards variable volume micropipettes feature built-in tip ejectors and autoclavable tip cones secure volume lock five year warranty							
2		Autoclavable Pipetter of Single Channel, 1-10 µl ()	pc	1	17,000.00		17,000.00

Specification:

with stainless steel ejector
volume in micro liter (range: 1 - 10)
increment: 0.02 micro liter
systematic error in micro liter (range: ± 0.025 to ± 0.1)
random error in micro liter (range: ± 0.012 to ± 0.04)
systematic error percentage (range: ± 2.5 to ± 1)
random error in CV (range: ± 1.2 to ± 0.4)
each pipette should be calibrated according to ISO 8655 standards
variable volume micropipettes feature built-in tip ejectors and autoclavable tip cones
secure volume lock
five year warranty

3	Autoclavable Pipetter of Single Channel, 10-100 ul ()	pc	1	15,000.00		15,000.00
---	---	----	---	-----------	--	-----------

Specification:

with stainless steel ejector
volume in micro liter (range: 10 - 100)
increment: 0.2 micro liter
systematic error in micro liter (range: ± 0.35 to ± 0.8)
random error in micro liter (range: ± 0.10 to ± 0.15)
systematic error percentage (range: ± 3.5 to ± 0.8)
random error in CV (range: ± 1.0 to ± 0.15)
each pipette should be calibrated according to ISO 8655 standards
variable volume micropipettes feature built-in tip ejectors and autoclavable tip cones
secure volume lock
five year warranty

4	Autoclavable Pipetter of Single Channel, 100-1000 ul ()	pc	1	15,000.00		15,000.00
---	---	----	---	-----------	--	-----------

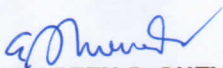
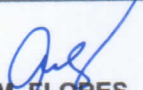


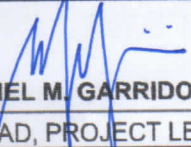
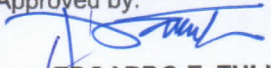
Specification:

with stainless steel ejector
volume in micro liter (range: 100 - 1000)
increment: 1 micro liter
systematic error in micro liter (range: ± 3 to ± 8)
random error in micro liter (range: ± 0.6 to ± 1.5)
systematic error percentage (range: ± 3 to ± 0.8)
random error in CV (range: ± 0.6 to ± 0.15)
each pipette should be calibrated according to ISO 8655 standards
variable volume micropipettes feature built-in tip ejectors and autoclavable tip cones
secure volume lock

five year warranty						
5	Autoclavable Pipetter of Single Channel, 2-20 ul ()	pc	1	17,000.00		17,000.00
Specification: with stainless steel ejector volume in micro liter (range: 2 - 20) increment: 0.02 micro liter systematic error in micro liter (range: ± 0.1 to ± 0.2) random error in micro liter (range: ± 0.03 to ± 0.06) systematic error percentage (range: ± 5 to ± 1) random error in CV (range: ± 1.5 to ± 0.3) each pipette should be calibrated according to ISO 8655 standards variable volume micropipettes feature built-in tip ejectors and autoclavable tip cones secure volume lock five year warranty						
6	Autoclavable Pipetter of Single Channel, 20-200 ul ()	pc	1	15,000.00		15,000.00
Specification: with stainless steel ejector volume in micro liter (range: 20 - 200) increment: 0.2 micro liter systematic error in micro liter (range: ± 0.5 to ± 1.6) random error in micro liter (range: ± 0.2 to ± 0.3) systematic error percentage (range: ± 2.5 to ± 0.8) random error in CV (range: ± 1.0 to ± 0.15) each pipette should be calibrated according to ISO 8655 standards variable volume micropipettes feature built-in tip ejectors and autoclavable tip cones secure volume lock five year warranty						
7	Wide Mini-Sub Cell Horizontal Electrophoresis System()	pc	1	120,000.00		120,000.00
Specification: Base footprint (LxWxH): 25.5x17.8x6.8cm Base buffer volume: 650-900ml Base Gel size: 15x7cm Tray sizes: 15x10 cm Base: Molded clear plastic Gel Casting gates: Aluminum Safety Lids: Molded clear Plastic						

Electrode wire guard: Molded polycarbonate
 Banana Plugs: Gold-plated brass, 4.4cm length
 Electrode: Platinum, 0.25mm diameter
 Electrical cables: Dual, 20AWG, tinned copper wire cable, Flame-retardant polyurethane insulation jacket
 Electrical leads: Nickel-silver
 Gel Tray: UV- transparent acrylic plastic (UVTP)
 Combs: Molded plastic and machined acrylic
 Gel casting device: polycarbonate 0.64 cm silicon foam
 Input power: Nominal= 220-240 VAC, 50-60 Hz; 700 W maximum
 Actual = 90-132 or 198-264 VAC, 50-60-Hz
 Fuses: 2.5 A, 250VAC, 5mmx20mm. Type T
 Input power cord: 3-wired; grounded
 Output (programmable)
 Voltage: 10V to 300V, fully adjustable in 1 V steps
 Voltage accuracy: $\pm 2\%$ of reading or 3 volts, whichever is more
 Current: 4mA to 400mA, fully adjusted in 1 mA steps
 Current accuracy: $\pm 2\%$ of reading or 3mA, which ever is more
 Power(maximum): 75W
 Terminals: 4-pair recessed banana jack, floating parallel
 Timer Control: 001-999 minutes, fully adjustable
 Ripple: 1% @300 V and 70W
 Line Regulation: 1% @300 V and 70W, 90-132 or 198-264 VAC
 Load Regulation: 1% @300 V for 50% change in output load
 Drift: 1% @ after 15mins warm up at 300V and 70W
 Noise: 55dBA at 1 meter
 Readout stability: Volts= $\pm V$; Current: $\pm 1\text{Ma}$
 Auto power up after power failure: User selectable, setup values maintained
 Safety compliance: EN-61010
 EMI: Conforms to CE standard for emissions and immunity Class A, testes only at 230 V
 Display function: 3-digit LED display, voltage, current or time
 Function Modes: Constant voltage, constant current, timer, pause, user selectable
 Automatic power up after power failure
 Envi: Operating Tem (40°C); Humidity (0-95%, in the absence of condensation)
 Dimensions (W x D x H): 25 x 21 x 8.5 cm
 Weight: 1.1kg, unit is stackable
 Inclusions: Lid with Cables, 15cm x 10cm (WxL) UV transparent tray, Leveling bubble, 15-well comb, fixed height, 1.5 mm thickness, 20-well comb, fixed height, 1.5 mm thickness, Gel caster, PowerPac Basic Power Supply

	TOTAL					216,000.00
Purpose: For DBM Project						

Requested by:  ELIZABETH S. QUEVEDO		Funds Available:  ALICIA M. FLORES	
TWG - Laboratory Equipment		HEAD, BUDGET OFFICE  CO- DPPG	
Signature: Printed Name: Designation:	Requested by:  DARLYN A. DUPAL	Noted by:  ROMMEL M. GARRIDO JR.	Approved by:  EDGARDO E. TULIN
	END USER	UNIT HEAD, PROJECT LEADER	PRESIDENT, VSU 