

## VISAYAS STATE UNIVERSITY Visca, Baybay City, Leyte

## PROJECT PROCUREMENT MANAGEMENT PLAN (PPMP) CY 2021

End User/Unit/Dept/Office/Div.: <u>DEPARTMENT OF PLANT BREEDING AND GENETICS</u>

Funding Source: Completion of Lecture Hall and Classroom Rehabilitation of Breeding Nursery of Seed Storage Facility and Tissue Culture

Total Budget: 2,234.912.00

	Description/Specifications	Quantity	Unit	Unit Cost	Estimated Budget			Sc	hedule	/Milest	one of	Activ	ities (in	quanti	ties)		
	LABORATORY EQUIPMENT					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Table type vacuum packaging machine voltage: 220V/50-60Hz power: 0.75W heat-sealing power: .6 Kw lowest absolute pressure of vacuum case: 1.33 kpa volume of vacuum case: 380 x 380 x 80 mm heat sealing strip length and width: 260 x 8 mm number of heat sealing strips: 1 or 2 pcs exhaustment of vacuum pump: 10m3/h material of vacuum case and null: stainless steel dimension: 470 x 330 x 300 mm (I x w x h) weight: 45 kgs	1	Unit	33,900.00	33,900.00							1					
2	DSLR Camera 20.9 megapixel CMOS EXPEED S image processing 51-point autofocus 8 frames per second 4k UHD/30p videos	1	unit	55,000.00	55,000.00							1					

	150 100-51200 wi-fi									
3	Laboratory Refrigerator with 10.6 cubic foot/300 L capacity  Temperature range: +2°C to +8°C  Inner cabinet: white epoxy painted Inner shelves: epoxy plastic coated steel rod  CFC Free Eco-friendly refrigerant R 134a  CFC Free, environment friendly Cyclopentene foaming PUF insulation  No frost, fan-assisted cooling circulation system  Ultra fast pull down, auto defrost with self-evaporating drip tray  Rear-to-front hot air anti-condensation  Digital temperature controller  Double glazed glass doors  Full length illumination  Fitted with castors, front two with brakes  Low noise, green technology and energy saving  Self closing hinge doors  Lock as standard  Input 220/240V, 50 Hz with power cord & plug  Automatic voltage stabilizer with time delay restart  gross volume: ≥ 300 L  Inner dimension: 560(w) x 480(d) x 1415(h)  Outer dimension: 645(w) x 570(d) x 2050(h)	2	unit	70,000.00	140,000.00		1	1		
4	Electric Compound Binocular Microscope Objective Lenses: DIN standard Achromat 4x, 10x, 40xR, 100xR oil immersion objectives are parfocalled, parcentered, color coded and	4	unit s	55,000.00	220,000.00		4			

	mounted in reverse facing quadruple; Eyepieces: Wide field 10x eyepieces, FN18. Interpupillary adjustment 55-75mm. Eyepiece can be fitted with a 20mm diameter reticle Total Magnification: 40x, 100x, 400x, 1000x Specimen Stage: Large 125mm x 115mm stage, with built-in mechanical stage. Mechanical stage provides X-Y movement of 55mm x 75mm Focusing: Rack and pinion coarse focus with tension adjustment, separate fine focus. Coarse focus knob control moves the stage up or down 20mm. Fine focus moves 0.2mm per Condenser: Abbe NA 1.25 condenser with iris diaphragm and filter holder for 32mm filter Illumination: 1W LED illumination with on/off switch with intensity control. Corded microscope is voltage sensing 100~240V										
	Warranty: 5-year warranty, excluding LED bulb Includes: Dust cover and blue filter										
5	Semi-automatic rotary microtome For paraffin-embedded tissue sectioning Section thickness total range in (μ): 0.5 - 100 Trimming total range in (μ): 1 - 600 Specimen feed in (mm): 27-29 Vertical stroke in (mm) for sectioning og megacassettes: 71-73 User interface: 6"-8" capacitive touchscreen display	1	unit	500,000.00	500,000.00						
	Operating modes: Rotational or Rocking (selectable) Specimen retraction total range (μ): Selectable between 5 – 250, Default value: 40μ Motorized coarse feed (μm/sec): 300 - 1800							ı			

	Blade Holder Type: Two in One for high and low profile blades Max. specimen size (mm): 50x60x40 (w x h x d) Specimen orientation: ± 8º horizontal and vertical, Rotational capability: 360º Power requirements: 100-240 VAC / 50-60Hz Dimensions in (mm): 460-470 (width) x 540-545 (depth with tray) x 295-300 (height)										
6	Micro bead sterilizer with 1000g glass beads Capacity: 300g/11oz. Chamber diameter: 1.6 in/ 40mm Height: 15.5 cm/6.1 in Length: 14.5 cm/5.5 in Temperature range: 100 to 300 °C Power source: 220-240V 50/60hz	2	unit s	48,000.00	96,000.00			1	ı		
7	Tri-power Stereo microscope  45° advance viewing head which can rotate 360° locked on 15x wide-field eye piece with diopter adjustment on one ocular tube magnification of paired objectives: 30x parfocal, 45x parcentered, and 60x achromatic led lighting rack and pinion focusing with slip clutch and tension adjustment adjustable pole mounted cycle includes a 95mm black and white reversible stage plate rugged all metal construction corded power source: 220-240 V 50/60Hz	4	unit	25,000.00	100,000.00						
	with warranty							4			

Portable electric balance /weighing scale with AC adapter and storage cover Capacity: 8200 g readability: 1g linearity: + 1g pan shape: square level bubble adjustment feet wide LCD display with blacklight multiple weighing mode power source: AC (220 - 240 V 50/60Hz) and DC (AA-Battery)	1	unit	30,000.00	30,000.00			1			
Rechargeable precision top loading balance Capacity: 10 kg readability: 0.1 g linearity: +/- 0.3g repeatability: 0.3g weighing units: gram, kilogram, pound, carat, Newton display: LCD Builtin application: check weighing, parts counting, percent setup, unstable conditions, peak hold interface: RS-232 port Operating temperature range: 15 to 30 degrees C Compliance: CE Power: rechargeable battery with 240V AC adapter weight: 2.8 -3 kg weighing pan: 195 x 195 mm (W x D) overall dimension: 97 x 206 x 333 mm (H x W x D)	1	unit	30,000.00	30,000.00			1			

10	40X-2000X LED Biological Trinocular	1	unit	300,000.00	300,000.00	T	T			T	T	T	T	
1	Compound Microscope with 5MP Camera and	_		000,000.00						1		- 1		
	MacBook Pro Laptop									-		- 1		
	Head: trinocular, 45 degree inclined, 360													
	degree swiveling											- 1		
	Nosepiece: revolving quadruple													
	Objective: Achromatic, DIN 4X, 10X,													
	40X(Spring), 100X(Spring, Oil)									1				
	Eyepiece: WF10X and 20X											- 1	- 1	
	Stage: 3D double layer, size 5.5 x 5 in (14 x												1	
	12.7 cm), X-Y stroke: 3x2 in (7.6 x 5.3 cm)											- 1		
	Focusing: coaxial coarse and fine													
	Condenser: Abbe, NA=1.25, with iris													
	diaphragm													
	Illumination: LED									1				
	Power Supply: 100-240VAC, 0.35A adapter to													
	DC6V, 2A													
	Achromatic optical system with precise optical													
	glass elements													
	Adjustable ocular diopter on left ocular tube													
1	High resolution images over a wide field of													
	view										1			
	Heavy-duty metal framework								1					
	5MP USB camera with Windows/Mac software					1 1								
	GS and CE approval													
	Excellent five (5) year warranty													
	Camera specifications													
	Sensor: Aptina MT9P001 (color)					1 1								
	Sensor Type: CMOS													
	Sensor Size: 5.7x4.3mm (1/2.5" class)													
	Pixel Size: 2.2 micrometers										1			
	Resolution: 5.1MP													
	Frame Rate: 55fps @ 640x480, 18fps @								1					
	1280x960, 6.8fps @ 2592x1944													

Sensitivity: .53V/Lux-sec												
Connectivity: USB 2.0												
Compatibility: Windows (32/64 bit)												
XP/Vista/7/8/10, Mac OSX, Linux												
Mounting Sizes: 23mm, 30mm, 30.5mm, and												
C-mount												
Packing List:												
Trinocular Microscope Body												
Four Achromatic DIN Objectives, 4X, 10X,												
40X(S), 100X(S, Oil)												
One Pair of WF10X Eyepieces							- 1					
One Pair of WF20X Eyepieces												
Bottle of Immersion Oil												
Dust Cover												
AC Adapter												
User's Manual Download									1			
One 5.0MP Color Digital Camera - MU500B							- 1					
One 0.5X C-mount Relay Lens							- 1					
One 6' (1.8m) USB Cable												
Two Eyepiece Adapters, 30.0mm 30.5mm										- 1		
Two Rubber Seal Rings		1			1 1					- 1		
One CD with Software, Driver and User's									1			
Instructions										- 1		1
Macbook Pro Laptop Specifications		1							1			
13-inch Retina display with True Tone		1										
Apple M1 chip with 8-core CPU, 8-core GPU,								. 1				
and 16-core Neural Engine		1										
8GB unified memory						1						
256GB SSD storage	1 1									- 1	- 1	
Magic Keyboard											-	
Touch Bar and Touch ID												
Force Touch trackpad												
Two Thunderbolt / USB 4 ports				1			- 1	1				

11	Upright Fluorite Objectives Fluorescence	1	unit	600,000.00	600,000.00	T										
11	Microscope including a microscope camera, a	_	unit	800,000.00	800,000.00											
	c-mount camera adapter, and brand new															
	desktop computer															
	desktop computer								1							
	Head: Trinocular															
	Objectives: Plan Achromat or UPlanFL 4x, 10x,															
	40x, 100x oil								1							
	Eyepieces: 10x Eyepieces								1							
	Nosepiece: 6 position															
	Stage: Graduated mechanical XY stage															
	Fluorescence: 4 Position Fluorescence															
	Attachment, 100 Watt Mercury Lampouse &															
	Power Supply															
	Fluorescence Dichroic Filter Cubes: FITC – U-															
	MNB. Blue light shines on slide, green light in													1		
	eyepieces, TRITC – Orange. Green light shines													1		
	on slide, orange light in eyepieces, Four-Place								- 1							
	rotary filter cube turret, Includes blank light															
	blockers on the empty spaces to protect					1 1			- 1			1				
	against harmful UV entering the viewing head.							1	- 1						- 1	
	Transmitted Halogen Lighting: High power												1			
	100W halogen illumination , Built-In												- 1			
	Transmitted Light Filters: neutral density ND6,								1		- 1					
	neutral density ND25, LBD (Daylight						- 1						1		1	
	compensation), Condenser U-AC2: 1.1								- 1						1	
	numerical aperture						1			- 1						
	Frame has Autovolt Voltage Input: 220 – 240											1				
	VAC auto volt, 50 – 60 HZ.															
	Travel focus lock stop							-								
	Photography: Top camera port. 3-Position															
	prism slider. 100 percent to eyepieces, 100											1				
	percent to camera, or split to eyepieces and															
							1			1						
	percent to camera, or split to eyepieces and camera									1						

i.

One year warranty											
Microscope Camera specification				1					1		
Image Sensor: 1 in. color CMOS			İ								
Resolution (max.): 4104 (W) x 2174 (H) pixels						1					
Pixel Size: 3.45 x 3.45 μm											
Binning: 2 × 2											
A/D Converter: 10 bits											
Exposure Times: 27 μs–15 s								- 1			
Data Transfer: USB 3.1 Gen1											
PC Control: Windows 10 Pro (64 bit)											
Compatible with the desktop computer											
Camera Adapter Specification											
must be compatible with the fluorescence										1	
microscope											
must be compatible with the microscope	1										
camera							2 1			1	
Desk top computer specification											- 1
must be compatible with the microscope											
camera											
with license Windows 10 Pro (64 bit)											
brand new											
Processor: Intel Core i5 9400F or higher									- 1		
Motherboard: Intel H310 Chipset, Anti-Sulfur		1									
Resistors Design, Gaming LAN with Bandwidth	1								- 1		
Management									- 1	- 1	
Memory: 16GB (2x8) DDR4 or higher		1									
SSD: 500GB M.2,				4							
Optical Drive: DVD-RW											
Casing: W/ 700W PSU,											
Monitor: 23" IPS FHD,											
Keyboard and mouse combo											
500W IC controlled AVR											
Stereo speakers	1			1 1				1			

12	Basic Bench pH meters with replaceable	1	unit	60,000.00	60,000.00								
	electrode and buffer												
	Accuracy temperature: ±0.3°C												
	Accuracy pH: ±0.1										- 1		
	Electrical requirements: AC/DC 9 V adapter					1 1							
	(220 VAC, 60 Hz)					1 1							
	Resolution (mV): 0.1 mV (±199.9 mV); 1 mV												
	beyond ±200 mV												
	Temp probe calibration: offset in 0.1°C					1 1							
	increments; offset range ±5°C					1					- 1		
	Range pH: 0 to 14							1			- 1		
	Accuracy mV: ±0.2 mV (±199.9 mV), ±2 mV												
	beyond ±200 mV Calibration points: 1 to 5 points with												
	automatic buffer recognition (ABR)												
	Include 13-620-AE6 3-in-1 single jucntion gel					1 1							
	pH/ATC electrode												
	Memory: 100 datasets											1	
	Resolution temperature: 0.1°C												
	Temperature compensation: automatic or												
	manual (0 to 100°C)												
	Temperature range metric: 0.0 to 100.0 °C									1			
	Range mV: ±1999 mV												
	Resolution pH: 0.01							1					
	Power source: 220 - 240 50/60 Hz							1					
	Warranty: 2-year meter warranty; 6-month								1				
	electrode warranty												
13	Hot plate stirrer including magnetic bar and retriever kit	1	unit	70,000.00	70,000.00								
	Heating temperature range: 50°C - 500°C												
	Heating rate heating plate: 5K/min												
	Heat output: 1000W												
	Heat control: LED												
	Motor rating output: 1.5W					1		1					

Sttiring bar length max: 80 mm
Speed range: 100 rpm - 1500 rpm
Speed control : sacel 0 - 6
Fixed safety circuit: 550 °C
Set-up plate dimensions: 180 x 180 mm
Set-up plate material: ceramic
Power output: 1020W
Power source: 220 - 240 V 50/60 Hz
Depth: 330 - 335 mm
Width: 220 - 225 mm
Height 105 - 110 mm

TOTAL: 2,234,900.00

Prepared by:

DARLYN A. DUPAL

dDRC/Clerk

Noted by:

ROMMEL M. GARRIDO Jr.

Head, DPBG

Funds Available:

MYRI A S. PANCITO
Head, Budget Office

Date: March 11,2021