

Republic of the Philippines NUEVA ECIJA UNIVERSITY OF SCIENCE AND TECHNOLOGY Cabanatuan City 044-463-0226

www.neust.edu.ph

INVITATION TO BID

The Nueva Ecija University of Science and Technology through its Bids and Awards Committee (BAC), invites entities to bid for the hereunder projects:

Name of Project: **Physics Laboratory Equipment for College of Engineering** Location: College of Engineering – NEUST, Cabanatuan City Approved Budget for the Contract (ABC): Php 2,988,404.00 Contract Duration:120 Calendar Days Fund Source: Income Bid Documents: Php 5,000.00

ITEM DESCRIPTION/SPECIFICATION:

Item	Qty	Description	
1	1 unit	 Digital Calliper Measures up to 6 inches or 18 cm Resolution of .0005 inches or .01 mm Includes protective plastic case. 	
2	1 unit	Micrometer Range: 0 to 25 mm Resolution: 0.1 mm Includes form fitted wooden case for storage	
3	1 set	 Super Pulley Force Table Removable legs for storage Includes three low-friction pulleys with clamps Adjustable pulley height for reduced parallax 	
4	1 set	 [Laminated surface with built in scale Mass and Hanger Set Includes: 4x Mass hanger (5.0 g) 3x 100 g mass (brass) 3x 50 g mass (brass) 6x 20 g mass (brass) 3x 10 g mass (aluminum) 3x 5.0 g mass (aluminum) 3x 2.0 g mass (plastic) 3x 1.0 g mass (plastic) 	

		• 3x 0.5 g mass (plastic)	
		 1x Storage Case 	
	Standard Smart Cart Metal Track 1.2 m System		
 Smart Carts are completely instrumented with all the for dynamics Bluetooth cart connection facilitates live data displated devices Carts feature two string tie positions Red and blue carts for distinguishing during collision Conductive track facilitates the study of induced material track features a high-contrast scale for quick measures 1 set 1		 Smart Carts are completely instrumented with all the sensors you need for dynamics Bluetooth cart connection facilitates live data displays on student devices Carts feature two string tie positions Red and blue carts for distinguishing during collisions Conductive track facilitates the study of induced magnetic drag Track features a high-contrast scale for quick measurements Includes: 1x 1.2 m Aluminum Dynamics Track 1x Smart Cart (Red) 1x Smart Cart (Blue) 1x PAScar Cart Mass (set of 2) 1x Super Pulley with Clamp 1x IDS Spring Kit 1x Friction Block - IDS 1x Dynamics Track Feet (Pair) 1x Track Rod Clamp 	
		1x Smart Cart Rod Stand Adapter	
6	1 set	 Discover Friction Accessory Specially designed to work with carts and sensors Students can discover concepts as coefficient of friction, static friction, kinetic friction and sliding friction equations 2 Trays of identical plastic surfaces can be hooked together to explore surface vs. sliding frictional forces includes: 4 Friction Trays (1 Felt, 1 Cork, 2 Plastic) Easy Storage: friction trays are stackable, both for adjusting the pulling height and storage Versatile: allow students to discover key friction concepts 	
		Projectile Launcher Smart Gate System	
7	1 set	 The Mini Launcher and Smart Gate make the setup simple: Just clamp the launcher to the table and slide the Smart Gate on. Includes: 1x Smart Gate with Mounting Bracket 1x Launcher with Mounting Stand 2x Steel Balls with Loading Rod 1x 2-D Collision Accessory 1x Aluminum Table Clamp 1x 45 cm Stainless Steel Rod Range: 0.5, 1, 2 m 	
		 Range: 0.5, 1, 2 m Launch Angle: Angle: 0 to +90° and 0 to -45° 	

		Launcher Length: 18 cm		
		Time-of-Flight Accessory		
		 Compatible with high speed USB-based computer interfaces 		
		• Piezo electric circuit generates TTL timing signal from projectile impact		
_		Compatible with spring-powered projectile launchers		
8	1 unit	• Pad (20 by 20 cm) made from high strength plastic		
		 Includes 1 meter long connecting cable 		
		 Use with computer interface or equivalent electronic timers 		
		Phone Jack Extender Cord		
9	1 unit	 Six meter phone-jack-to-phone-jack cable 		
		 Designed for use with 7.5 cm wide photogates and similar devices 		
		Van de Graaff Generator, High Voltage		
		• The High Voltage Van de Graaff Generator features a 25 cm diameter		
		sphere that can generate approximately 400,000 volts.		
		• The size of the sphere, its rounded edges, and its height from the		
		demonstration table contribute to the high voltages generated.		
		Features:		
		 Large 25 cm dome for easy visibility 		
		• Sparks of up to 35 cm in length		
10	1 unit	• Tall lucite column keeps sphere far abovethe base, allowing a large		
		voltage generation, and is thick-walled to withstand years of use		
		Variable speed motor to adjust charge buildup		
		 Belt is easy to replace (one extra belt included) 		
		Includes:		
		 1x Van de Graaff Generator, High Voltage 		
		• 1x Installed belt		
		1x Replacement belt		
		Discharge Sphere		
	1 unit	 25 cm sphere supported on a Lucite column with a cast iron base 		
11		 Includes cabling for connection to a Van de Graaff generator or to a 		
		ground		
	a .	Replacement Belt, Van de Graaff		
12	2 set	Replacement belt for Van de Graaff Generator SE-8691		
		Power Supply (18 V DC, 3A)		
		Digital Meters Voltage and current; Backlit LCD		
		Constant Voltage Output continuously variable		
		Constant Voltage Line Regulation <0.01% ±3 mV		
13	1 unit	Constant Voltage Load Regulation <0.01% ±2 mV		
		Constant Voltage Ripple and Noise <0.5 mV rms		
		Constant Current Output continuously variable		
		Constant Current Line Regulation <0.2% ±3 mA		
		Constant Current Load Regulation <0.2% ±3 mA		
		Constant Current Ripple<3 mA rms		
		Power Source AC 100, 120, 220, 240 V ±10%, 50/60 Hz; Protection – overload		
		and reverse polarity protected		
		Dimensions 34 x 26 x 15 cm (11.5 kg)		

14 1 unit • Set of 4 total 11 1 unit • 2 Meter Patch Cord Set 14 1 unit • Red and Black 15 1 set Equipotential Field Mapper 15 1 set • Includes Silver conductive ink pen and circular template 15 1 set • So Sheets conductive paper 30 x 45 cm 16 1 set • Essential Physics Modular Circuits Kit 17 1 set • Essential Physics Modular Circuits Kit 18 Int Wireless Voltage Sensor • 1 x Wireless Voltage Sensor • 1 x Wireless Voltage Sensor • 1 x Wireless Current Sensor Module • 4 x Corner Module • 4 x Corner Module • 4 x Corner Module • 2 x A acell Battery • 3 Light Bub Module (with bulb) • 1 x SPST Switch Module • 1 x Wireless Conductive Module • 1 x 1000-Turn Coil/Inductor Module • 1 x 0 3 Resistor Module • 1 x 033 F Capacitor Module • 1 x 10 Ω Resistor Module • 1 x 10 Ω Resistor Module • 1 x 10 Ω Resistor Module • 1 x 10 Ω Resistor • 1 x 10 Ω Resistor Module • 1 x 10 Ω Resistor • 1 x 10 Ω Resistor Module • 1 x 10 Ω Resistor • 1 x 10 Ω Resistor			2-Meter Patch Cord Set
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 1x 100 μF Capacitor 1x 330 μF Capacitor 1x Diode 8x Cylindrical Magnet 0.5 in x 0.25 in 1x Compass 1x Gratnells Case SF-8616 - Basic Coil Set			
 1x 330 μF Capacitor 1x Diode 8x Cylindrical Magnet 0.5 in x 0.25 in 1x Compass 1x Gratnells Case SF-8616 - Basic Coil Set			
 1x Diode 8x Cylindrical Magnet 0.5 in x 0.25 in 1x Compass 1x Gratnells Case 17 1 set SF-8616 - Basic Coil Set			
 8x Cylindrical Magnet 0.5 in x 0.25 in 1x Compass 1x Gratnells Case SF-8616 - Basic Coil Set 			
1x Compass 1x Gratnells Case SF-8616 - Basic Coil Set			
1x Gratnells Case SF-8616 - Basic Coil Set			
17 1 set SF-8616 - Basic Coil Set			
17 1 set			
	17	1 set	
Includes one 200 turn, two 400 turn, and one 800 turn colls	17		Includes one 200 turn, two 400 turn, and one 800 turn coils

		Includes "U" shaped laminated iron core		
		 Coils are color coded for easy turn number identification 		
		 Coils have banana plug connectors 		
		Voltage Sensor		
		-		
		 The Voltage Sensor plugs into the 8-pin analog channel Interface to measure voltage at cample rates up to 10 MUz. Software recognizes 		
10	1+	measure voltage at sample rates up to 10 MHz. Software recognizes		
18	1 set	that a probe has been plugged in.Auto-detected on the Universal Interface		
		8-pin DIN, plugs into analog channel		
		Includes unshrouded banana jacks and unshrouded alligator clips.		
		Wireless Magnetic Field Sensor		
		• Ranges: ±50 G and ±1300 G		
		• Resolution: ±0.01 G (50 G range); ±1 G (1300 G range)		
		Maximum Sample Rate: 100 Hz		
		 Measurements: Magnetic Field Strength (3 axes and resultant) 		
		Logging; Yes		
19	1 set	Battery: Rechargeable Lithium-Polymer		
		Connectivity: Direct USB or via Bluetooth 4.0		
		Battery & Logging		
		 Stored Data Points Memory (Logging): >25,000 		
		 Battery - Connected (Data Collection Mode): >72 hr 		
		 Battery - Logging (Data Logging Mode): 3.5 days 		
		Battery Type: LiPo		
		Alnico Bar Magnets (2 Pack)		
	1 set	Dimensions are 150 mm by 13 mm		
20		Made of Alnico alloy		
		Polarity indicated by notched north poles		
		Magnets fit into a St. Louis motor		
		Iron Filings (1 lb pkg)		
21	1 set	• Iron filings sprinkled over a bar magnet instantly make the magnetic		
		field visible.		
		Smart Gate Pulley System		
		 Photogate with two photo detector spaced 1.5 cm apart 		
		• 1 Auxiliary port		
		• Threaded hole (1/4"-20)		
		Photogate tape slot		
22	1 set	Laser switch detector		
		Indicator LED		
		Swivel rod clamp		
		Mounting rod		
		Super pulley		
		 Symmetrical rise and fall time for all 4 ports 		
		Rotating Platform		
		Dual low friction bearings for shaft		
23	1 unit			
		 Four kg "A" frame base with adjustable feet and motor mount 48 cm outruded rotating platform with built in code 		
		48 cm extruded rotating platform with built in scale		

		Support rod to hold nullow and mass or a 7.5 cm nhotogete		
		 Support rod to hold pulley and mass or a 7.5 cm photogate Two 300 g rectangular masses 		
		Low-friction pulley mounted on spindle for applying torque Wireless Force Acceleration Sensor		
		Wireless force and acceleration sensor		
		Bluetooth smart compatible		
		Compatible with iOS, Android, Chromebook, MacOS and Windows		
		Built in logging		
		In application Bluetooth pairing		
24	1 unit	Measures both force and 3 axis acceleration		
		Compatible to be mounted on carts and rod stands		
		Range (Force): +/- 50 N		
		Resolution (Force): 0.03 N		
		Max Sample Rate: 1 Hz		
		Maximum Overload: 75 N		
		Battery life: 70 hours on low sample rate		
		Wireless Centripetal Force Accessory		
		The Wireless Centripetal Force Accessory is a low friction sliding mass		
		holder that connects to a Wireless Force Acceleration Sensor		
		When installed on a Rotating Platform, it provides a simple and direct		
25	1 unit	measurement of centripetal force and acceleration. Vary the mass using		
23	umi	the holed masses in the Mass and Hanger set.		
		• The string length is easily adjusted to vary the radius.		
		Includes:		
		1x Low-friction sliding mass holder		
		1x Mounting post for force sensor		
		Density Set		
	1 unit	Includes three 2.2 cm dia. cylinders of aluminum, brass and plastic		
26		• Two blocks; aluminum 1.9 x 3.2 x 4.1 cm; brass 1.6 x 1.9 x 2.8 cm		
20		Includes one irregular aluminum shape		
		Manual included		
		Overflow Can		
27	1 unit	Aluminum can provides direct volume measurements for the materials		
27		supplied in the Density Set.		
		• 76 mm diameter, with a volume of 477 mL and an angled down spout		
		String Vibrator		
	1 unit	Great tool for Mechanical waves demonstrations		
		• Study wave speed, frequency, wavelength, amplitude, interference and		
		resonance		
		Built-in Rod Clamps for mounting horizontally or vertically		
28		Stainless Steel Tongue of flexible metal is mounted to a powerful		
		neodymium magnet		
		 Air vents on the unit allows good air circulation to prevent overheating 		
		 Specially designed grooves and holes allow the unit to be clamped or 		
		mounted to a surface		
Induited to a surface				

		TYPICAL APPLICATIONS:		
		• Standing wave patternslearn about constructive and destructive		
		interferences		
		 Mechanical Wave CharacteristicsWave speed, string density, 		
		frequency, amplitude, wavelength		
		Includes:		
		String Vibrator Unit		
Constant Fre		Constant Frequency Power Supply (60 Hz)		
		Wave Cord (3 meter)		
		2-Meter Patch Cord Set		
		Set of 4 total		
		• 2 Meter Patch Cord Set		
29	1 unit	Red and Black		
		Stackable		
		 Spring connectors rotate in the grips 		
		Wireless Temperature Sensor		
		Wireless temperature sensor		
		Uses coin cell battery operated		
		 Bluetooth smart compatible 		
		 Compatible with iOS, Android, Chromebook, MacOS and Windows 		
		 Built in logging 		
		 In application Bluetooth pairing 		
30	1 unit	 Waterproof (IP67) 		
50	1 unit			
		Range: -40 to 125 deg C		
		Accuracy: +/- 0.5 deg C		
		Resolution: .01 deg C		
		Units: deg C, deg F or K		
		Max sample rate: 10 Hz		
		Max wireless range: 30 m (unobstructed)		
Expected battery life: 1 year				
		Basic Calorimetry Set		
	1 unit	Six Styrofoam calorimeters		
31		• Thermometer with range of 20° C to 110° C with 1° resolution		
		Water trap and plastic tubing included		
		Aluminum, copper and lead included for specific heat determination		
		Instruction manual and experiment guide		
		Thermal Expansion Apparatus		
	1 unit	• The 3.5 mm jack from the Thermistors can be connected directly to a		
		Quad Temperature Sensor using an interface and data collection and		
32		analysis captured by software.		
		• Or the 3.5 mm jack can be connected to the input on the base with a		
		digital multimeter connected to the apparatus via banana jacks and the		
		resistance of the thermistor measured.		
		<u>Features:</u>		

r		
		 Built-in Digital Gauge: Measure the rod expansion with 0.01 mm resolution
		 Built-in Thermistor: A 10 k thermistor is connected directly to each tube and the temperature can be determined using a digital ohmmeter or Temperature Sensor.
	 Heat with Steam or Water: The fluid used may be steam or water at any temperature. 	
		 Three Drop-in Metal Tubes: Each tube connects securely onto the rigid base. The other two can be simultaneously mounted on the base for convenient storage.
		Includes:
		 1x Base with built-in dial gauge and thermistor
		 1x Expansion tubes brass, copper and aluminum; 16 mm dia. (80 cm length)
		Steam Generator
		Steam output is 10 gram/minute
		 Variable power (0 - 400 watts) for adjustable steam flow
33	1 unit	Automatic safety shut-off
		Internal electric coils
		Dual steam ports
		Baster included for removing hot water for experiments
		 Mechanical Equivalent of Heat Apparatus This Apparatus is accurate to 5 %
		 It has rugged ball bearing construction and a Thermistor that way there is no thermometer to break
	1 unit	 There is also a crank counter attached so you can't forget how many times you have cranked
24		 It has double ball bearings to prevent the wear on moving parts The apparatus is simple and accurate. As the crank is turned, the friction between the rope and the cylinder is just enough to support a mass hanging from the other end of the rope.
34		• The ratio between the work performed and the thermal energy produced and transmitted to the cylinder determines J, the mechanical equivalent of heat.
		 Includes: The base, cylinder, crank and counter with a built-in clamp 2.7 meters of flat nylon rope
		 A 1 gallon can that can be filled with a measured mass of sand or water (if 10 g of laboratory masses are not available)
		 Laboratory manual including theory, step-by-step instructions and data tables.
		Digital Multimeter
	1 unit	3-3/4 digits 4000 count
35		Easy to read large LCD with Backlight
		Large breaking capacity fuse 30kA
		1.5V battery check function Thermo plastic elastomer, high resistance against drop shock

		Safety cap on current terminal		
		Data hold, Range hold, Relative function		
		Continuity check, Diode test		
		Auto power off function (30min.)		
		Maximum 20A can be measured if the measurement time is less than 10		
		seconds. (Take 10 minutes or longer intervals between measurements)		
		Display : numeral display 4000		
		Sampling rate : 3 times / sec.		
		AC frequency bandwidth : $40 \sim 400$ Hz (sine wave)		
		Image		
		Triple-Beam Balance (with Tare)		
		 Accurate, easy to use, durable and sturdy 		
		 Pan is removable with magnetic damping for quick and true 		
		measurements		
36	1 unit			
		Balance height can be adjusted Gamesity (10 grams)		
		Capacity: 610 grams		
		Readability: 0.1 gram		
		Tare: 225 grams		
		Resistivity Apparatus		
		Relate Resistance to Wire Length		
		Determine Resistivity of Different Materials		
37	1 set	Includes:		
		Resistivity Apparatus		
		 Voltage Sensor (unshrouded) 		
		Banana Plug Cord-Red (5 Pack)		
		Energy Transfer - Calorimeter		
		 Compare electrical energy input to changes in internal energy 		
		 Features a 10 Ohm heating resistor (instead of a coil) mounted to a 		
		circuit board which allows students to investigate the relationship		
38	1 unit	between the input energy and heat transfer into the water.		
		Includes:		
		• 2 Aluminum cups (Outer: 8.9 cm tall, 4.7 cm diameter; Inner: 7.5cm tall,		
		3.8 cm diameter)		
		• Plastic lid, two-hole rubber stopper, heating resistor with input cables		
		Basic Optics System		
		• Large 50 mm diameter optics components mounted in protective		
		holders that snap directly onto aluminum track		
		Built-in metric tape makes measurement of image and object distances		
39	1 unit	guick and accurate		
		 Versatile Light Source doubles as table-top Ray box for studies in 		
		Reflection, Refraction, Color Addition & Snell's Law		
		Includes:		
		1.2m Aluminum Optics Bench with built-in metric tape		
		 Geometric Lens Set (+100, +200 mm lens) 		
		 White Plastic Viewing Screen that Snaps on Track 		
		 Basic Optics Light Source (specifications as follows:) 		

		[a] Cinela 10 wett events halanan hull even the hitter and the
		[a] Single 10-watt quartz-halogen bulb provides bright, easy-to-see
		illumination without a lot of heat
		[b] Provides a Point Source, Crossed Arrow Object with metric Scale,
		Three Primary Color Source and ,3, or 5 Ray Source
		[c] Use free standing or easily clip directly to Basic Optics Track
Ray Optics Kit (specifications as follows): <u>Includes:</u>		
		Double Concave and Convex Lenses, Trapezoid Triangular Mirror
		Accessory with Concave, Convex and Plane Reflective surfaces, Hollow
		Lens to fill with a liquid or use as an air lens
		Optics Table OS-8465 (specifications as follows):
		[a] Provides an excellent viewing surface for ray optics
		[b] Polar grid printed directly on the table allows for easy measurement
		[c] Includes an acrylic cylindrical D lens
		Adjustable Lens Holder
		Accessory Lens Set (+250, -150 mm lens)
		Convex/Concave Mirror Accessory
		Experiment Manual
		Universal Interface
		USB or Bluetooth compatible
		Compatible with iOS, Android, Windows, MacOS and Chromebook
		Wireless connectivity
		 2 high speed analog inputs, +/- 10 Differential input
		 Selectable voltage gain: x1, x10, x100
	1 unit	Bi-directional digital input
		• 2 digital inputs for photogates or time-of-flight accessories, with 0-5V
		TTL
40		• Signal generator with waveforms of: sine, triangle, square wave, positive
40		and negative ramps, DC, custom user
		 Frequency of .0001Hx to 100 KHz at 1 mHz resolution
		 Amplitude range of +/- 8V
		Resolution of 3.9mV, 12-bit DAC
		Selectable voltage limit and DC offset
		Frequency sweep function
		Measure output current, voltage
		2 sensor inputs
		• 2 MHz max sampling rate
		12-bit resolution on analog input
		Physics Site License Software
	1 unit	Data collection and analysis software
		Works with MacOS and Windows
4.1		• Contains the following features graphs, tables, oscilloscope, fft,
41		histogram, calculator, video capture, video analysis, predictions, live
		data capture, stop and start conditions, play back for data and video
		Electronic lab workbooks
		Electronic journal including annotations
t	1	

 Video Analysis with the following features: zoom tool, vectors, auto tracking 4 different modes of video modes: opening an existing video, capture an image, record a video and record a video with data Compatible with mpeg-4, avi and quicktime video files Calculator with ability to use measurements or user input Undo/Redo Ability to replay data or video capture including looping data and video Ability to set non-common rate of sampling on sensors
 Ability to set non-common rate of sampling on sensors
Multiple language support
 Data capture in FFT and Oscilloscope modes
Print capabilities

Warranty, Terms and Conditions:

- 2-years product warranty
- 10 years availability of spare parts

Bidders must submit the following:

- Technical specifications details or Technical data indicating the brand name and model of item/s as additional technical requirements.
- After sales training-workshop at Nueva Ecija University of Science and technology after completion of deliver.

The schedule of the bidding activities are as follows:

Activities	Schedule
1. Advertisement/Receipt of Letter of Intent	January 26, 2021 to February 02, 2021
2. Pre-bid Conference	February 04, 2021 10:30 AM
	NEUST President's Office Conference
	Room, Sumacab, Cabanatuan City
3. Submission of Bids	February 16, 2021, UNTIL 5:00 PM
	NEUST President's Office Conference
	Room, Gen. Tinio St., Cabanatuan City
4. Opening of Bids	February 17, 2021 10:30 AM
	NEUST President's Office Conference
	Room, Sumacab, Cabanatuan City
5. Post Qualification	February 18, 2021 10:30 AM
	NEUST President's Office Conference
	Room, Sumacab, Cabanatuan City

Letter of Intent must be submitted personally and in hard copy format at the Office of the BAC Secretariat, NEUST, Gen. Tinio (St.) Cabanatuan City on or before 5:00PM on February 02, 2021.

Bidding will be conducted through open competitive bidding procedures using a non-discretionary "pass/fail" criterion as specified in the 2016 Revised Implementing Rules and Regulations (IRR) of Republic Act (RA) 9184, otherwise known as the "Government Procurement Reform Act".

Bidding is restricted to Filipino citizens/sole proprietorships, partnerships, or organizations with at least sixty percent (60%) interest or outstanding capital stock belonging to citizens of the Philippines, and to citizens or organizations of a country the laws or regulations of which grant similar rights or privileges to Filipino citizens, pursuant to RA 5183.

A complete set of Bidding Documents may be acquired by interested Bidders from February 04 - February 16, 2021 upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB in the amount of P5,000.00.

It may also be downloaded free of charge from the website of the Philippine Government Electronic Procurement System (PhilGEPS) and the website of the Procuring Entity, provided that Bidders shall pay the applicable fee for the Bidding Documents not later than the submission of their bids.

Bids must be duly received by the BAC Secretariat at the address below on or before February 16, 2021 - 5:00PM. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in the PBD.

Bid opening shall be on February 17, 2021, 10:30AM at NEUST Conference Room, Sumacab, Campus, Cabanatuan City. Bids will be opened in the presence of the bidders' representatives who choose to attend at the address below. Late bids shall not be accepted.

The Nueva Ecija University of Science and Technology reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Section 41 of RA 9184 and its IRR, without thereby incurring any liability to the affected bidder or bidders.

For more information concerning this bidding, please contact the following:

MS. MICHELLE A. SUPEÑA Bids and Awards Committee Secretariat NEUST Gen. Tinio St., Cabanatuan City Telephone No. (044) 463-0226 Email Address: neustmain@yahoo.com

Approved by:

DR. HONORATO P. PANAHON BAC Chairperson