PHILIPPINE BIDDING DOCUMENTS

(As Harmonized with Development Partners)

Procurement of GOODS

SUPPLY AND DELIVERY OF SCIENCE, TECHNOLOGY, FISHERY, AGRICULTURE AND ENGINEERING EQUIPMENT FOR THE THREE CAMPUSES OF MINSCAT

Fifth Edition August 2016

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Section I. Invitation to Bid

Republic of the Philippines

MINDORO STATE COLLEGE OF AGRICULTURE AND TECHNOLOGY

Alcate, Victoria, Oriental Mindoro

INVITATION TO BID FOR SUPPLY AND DELIVERY OF SCIENCE, TECHNOLOGY, FISHERY, AGRICULTURE AND ENGINEERING EQUIPMENT FOR THE THREE CAMPUSES OF MINSCAT

- 1. The Mindoro State College of Agriculture and Technology Main Campus, through the Corporate Budget for the contract approved by the governing Boards intends to apply the sum of Six Million Pesos (Php 6,000,000.00) being the Approved Budget for the Contract (ABC) to payments under the contract for Supply and Delivery of Science, Technology, Fishery, Agriculture and Engineering Equipment for the Three Campuses of MinSCAT /Contract No. PB-2017-12. Bids received in excess of the ABC shall be automatically rejected at bid opening.
- 2. The Mindoro State College of Agriculture and Technology Bongabong Campus now invites bids for the Supply and Delivery of Science, Technology, Fishery, Agriculture and Engineering Equipment for the Three Campuses of MinSCAT, Alcate, Victoria, Oriental Mindoro. Delivery of the Goods is required within 90 calendar days from the date of submission and receipt of bids. Bidders should have completed a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II. Instructions to Bidders.
- 3. 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.
- 4. Interested bidders may obtain further information from *MinSCAT Main Campus*, *Alcate, Victoria, Oriental Mindoro* and inspect the Bidding Documents at the address given below during office hours, *8:00 a.m. to 5:00 p.m.*.
- 5. A complete set of Bidding Documents may be acquired by interested Bidders on July 28, 2017 from the address 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).

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 (http://www.minscat.edu.ph), provided that Bidders shall pay the applicable fee for the Bidding Documents not later than the submission of their bids.

The MinSCAT – Main Campus will hold a Pre-Bid Conference on August 4, 2017 at 10:00 am at the Conference Room of MinSCAT – Main Campus, Alcate, Victoria, Oriental Mindoro., which shall be open to prospective bidders.

6. Bids must be duly received by the BAC Secretariat at the address below on or before **2:00 p.m.**, *August 18*, *2017* All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 18.

Bid opening shall be on *August 18, 2017, 2:00 p.m.* at the *Conference Room of MinSCAT – Main Campus, Alcate, Victoria, Oriental Mindoro*. 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.

- 7. The *MinSCAT Bongabong Campus* 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.
- 8. For further information, please refer to:

VICENTE G. HERNANDEZ

Office of the Bids and Awards Committee Administration Building, MinSCAT – Main Campus Alcate, Victoria, Oriental Mindoro CP Nos. 0977 825 4395; 0939 907 5108

Email Address: vghernandez 7@yahoo.com.ph/vicente.hernandez765@gmail.com

(SGD) VICENTE G. HERNANDEZ

BAC Chairperson

For Goods Offered from within the Philippines

Name of Bidder:	П	ΓΒ No.	Page	of
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Item No.	Description	Unit	Qty	Unit Price	Amount (PhP)
1.	Trinocular Compound Microscope with Camera Specifications: > Total magnification: 40X-100X-250X-400X-1000X-2500X > Eyepieces: wide field WF10X and WF25X > Objective: achromatic DIN 4X, 10X, 40X(S), 100X(S, Oil) > Viewing head: 45°Inclined 360°swiveling trinocular > Sliding adjustable interpupillary distance: 2-3/16" ~ 2-15/16"(55mm ~ 75mm) > Ocular diopter adjustable on both eyetubes > Nosepiece: revolving quadruple > Stage: mechanical double layer size: 4-1/2"x 4-15/16" (115mm x 125mm) > Stage x-y stroke (travel range): 2-13/16" x 1-3/16" (70mm x 30mm) > Condenser & diaphragm: NA1.25 Abbe condenser with iris diaphragm > Transmitted (lower) illuminator: LED light, intensity adjustable > Focus adjustment: Coaxial coarse & fine knobs on both sides > All metal mechanical components > Extensive slide preparation kit, cleaning kit and the World of the Microscope book included> 25-piece prepared slides, 100-piece blank glass slides with > 100-piece cover slips and 100-sheet lens cleaning paper included>Power supply: AC/DC adapter, 100V-240V (UL approved)Digital camera:- True color 2592x1944 pixels (5MP)- Frame speed: 2fps at 2592x1944, 3fps at 2048x1536, 5fps at 1600x1200, 7.5fps at 1280x1024> Software compatible with Windows operating systems and Mac OS > Offers capturing still images, stitching, EDF, video recording and measurement functions> USB2.0 cable included> Dimension: 9-1/16" x 7-1/8" x 14-1/4" (23cm x 18cm x 36cm)>Package weight: 11 lbs (5 kg)	unit	3		
2.	Dissecting Microscope - Specifications: Total magnification: 20X, 40X, 80X Eyepieces: widefield WF10X/20 and WF20X Rotational objectives: 2X, 4X Head: 45°Inclined binocular with locked-in eyepieces Diopter adjustment on left ocular-tube Interpupillary distance: 2-3/16" ~ 2-15/16"(55mm ~ 75mm) Working distance: 2-1/4" (57mm) Field of view: 10mm/5mm LED cold illuminators: incident (upper) and transmitted (lower) Frosted glass stage plate: 3-3/4" (95mm) in diameter White/black plastic stage plate: 3-3/4" (95mm) in	unit	8		

	_			1	1
	diameter Head vertical moving range (along the pillar): 2-3/4" (70mm) Focusing adjustment range: 1-5/8" (42mm) All metal mechanical components Full optical glass elements Power supply: Power adapter: 120V AC Battery: 3 AA batteries Digital camera: - True color 640x480 pixels (0.3MP) - Frame speed: 30fps at 640x480 - Software compatible with Windows operating systems and Mac OS - Offers capturing still images, stitching, EDF, video recording and measurement functions - USB2.0 cable included Dimension: 8-1/4"x 4-3/4" x 14-1/4" (21cm x 12cm x 36cm)				
	Shipping package: 6 lb (3 kg)				
3.	Water Testing Sensors & Modules Consist of the ff: USB Module-1unit, RF Communication Module - 2units, Battery Module - 1unit, Digital Display module -1 unit, Graphic Display Module - 1 unit, Oxygen Logger sensor -1 unit, Temperature logger sensor -1 unit, Conductivity logger sensor -1unit, pH logger sensor -1 unit, Barometer logger sensor - 1 unit, Case for Neulog sensor kit - 1pc	set	2		
4.	Underwater Quantum Meter Specifications: Calibration Uncertainty: ±5 % Measurement Repeatability: Less than 1 % Long-term Drift (Non-stability): Less than 2 % per year Non-linearity: Less than 1 % (up to 3000μmol m-2 s-1) Response Time: Less than 1 ms Field of View: 180° Spectral Range: 410 to 655 nm (wavelengths where response is greater than 50% of maximum) Directional (Cosine) Response: ±5 % at 75° zenith angle Temperature Response: 0.06 ± 0.06 % per C Operating Environment: 0 to 50 C; less than 90 % non-condensing relative humidity up to 30 C; less than 70 % non-condensing relativity humidity from 30 to 50 C; separate sensors can be submerged in water up to depth of 30 m Meter Dimensions: 126 mm length, 70 mm width, 24 mm height Sensor Dimensions: 24 mm diameter, 28 mm height Mass: 180 g Cable: 2 m of shielded, twisted-pair wire; additional cable available; santoprene rubber jacket	unit	1		
5.	Tinocular Stereo Microscope Specifications: Total magnification: 3.5X-90X Head: 45°inclined 360°rotatable trinocular Eyepieces: 30mm widefield WF10X/20 and WF20X	unit	1		

		1		r	,
	Objective: zoom 0.7X-4.5X				
	Zoom ratio: 6.5:1				
	Auxiliary objective lens: 0.5X				
	Separate photo-tube focus adjustment				
	Beam split lever enables photo-tube or left eye-tube				
	Interpupillary distance: adjustment 2-3/16" ~ 2-				
	15/16"(55mm ~ 75mm)				
	Diopter: adjustable on both ocular-tubes ±5dp				
	Working distance: 6-1/2" (165mm) with 0.5X auxiliary				
	lens and 3-3/4" (95mm) without 0.5X auxiliary lens				
	Field of view: max 2-3/8" (60mm) with 0.5X auxiliary				
	lens and max 1-1/8"(29mm) without 0.5X auxiliary lens				
	Focus adjustment stroke: 2-3/8" (60mm)				
	Incident (upper) illuminator: 12V/10W halogen with				
	reflector, 90° adjustable inclined angle range				
	Transmitted (lower) illuminator: 12V/10W halogen				
	Each light has its own intensity control				
	Main power on/off switch				
	Mounting size of auxiliary lens and ring lights: 50mm				
	female thread				
	Plastic shell 54 LED with 100V-240V wide voltage				
	range power adapter Glass stage plate: 3-3/4" (95mm) in diameter				
	White/black plastic stage plate: 3-3/4" (95mm) in				
	diameter diameter stage plate. 5-3/4 (9311111) III				
	Sturdy metal framework				
	Power supply: 100V~240V, 50/60Hz (US and Canada				
	Plug)				
	Digital camera:				
	- true color 4096x3288 pixels (14M pixels)				
	- 0.5X reduction lens to get larger field of view				
	- 0.01 mm calibration slide: 1mm/100 division				
	- Frame speed: 1.8fps at 4096x3288, 10fps at				
	2048x1644, 27fps at 1024x822				
	- Software compatible with Windows, Mac OS X and				
	Linux operating systems				
	- Capturing microscope images, recording live video,				
	measuring lengths, angles, areas, editing images				
	- USB 2.0 cable included				
	Dimension: 9 " x 6" x 17-1/2" (23cm x 16cm x 44cm)				
	Shipping package: 20 lbs (9 kg)				
6.	Water Quality Meter Kit	unit	3		
	Specifications:				
	pH range: 0.00 to 14.00pH				
	ORP (mV) range: -999 to 999mV				
	Chlorine (ppm) range: 0.01 to 10.00ppm				
	Temperature range: 23° to 194°F (-5 to 90°C)				
	Max Resolution: 0.01pH, 1mV, 0.01ppm, 0.1°				
	Basic Accuracy: ±0.01pH, ±4mV, ±10% of reading				
	±0.01ppm; ±1.8°F/±1°C				
	Memory: 15 readings				
	Dimensions/ Weight: Meter: 1.4x6.8x1.6"				
	(35.6x172.7x40.6mm)/ 3.85oz (110g)				
7.	Hotplate Magnetic Stirrer, with connection for	unit	2		
	Electronic Contact-thermometer, 3ltr., 230V				
8.	Plankton Net	unit	2		
δ.	Plankton Sampler 153µm, includes carry case.	unit			
	A popular and versatile net. The anterior reducing cone				
	makes filtration more efficient than a standard conical				
	makes intration more efficient than a standard conical	l		l	I

	net. Consists of an anterior reducing cone; a posterior conical filtering net; and Dolphin [™] adapter with Wisconsin bucket. A stainless steel net ring holds it open where the reducing cone and filter net meet. Bridle and bucket are stainless steel. Specifications: • Mouth diameter: 130 mm (5") • Ring diameter: 180 mm (7") • Includes matched Wisconsin bucket and adapter • Nets and Nitex® bucket strips available in 4 sizes.			
9.	Water Sampler, made of non-metallic materials like fiberglass, or PVC. Capacity is at least 1.5L. Supplied with 14m line.	unit	2	
10.	Refractometer Specifications: type: Salt (ATC) ranges: 0 to 100ppt (10 to 30°C) 1.000 to 1.070 Specific Gravity resolution: 1ppt 0.001 accuracy: ±0.1‰ ±0.001	unit	4	
11.	Digital Analytical Balance Specifications: Capacity: 200g Resolution: 0.001g Scale pan size: Ø90mm Power: 12V/6V/1.2AH With automatic external calibration weights, easy to operate, standard weights. Anti-overload protection and automatic fault tips High-contrast, large LCD display, display backlit A variety of unit conversion, easy to operate AC-DC dual use, long standby time	unit	1	
12.	Water Quality Starter Kit It measures six parameters common in water quality testing: alkalinity, chloride, hardness, iron, pH, and sulfite. This kit is equipped with all the necessary reagents and equipment to perform over 100 tests for each parameter, with the exception of iron, which includes reagents for 50 tests. With Portable carrying case for easy transport	unit	1	
13.	Graphic Data Logger w/ advanced Water Quality Sensor Consist of the ff: USB module -1, RF Communication module -2 Battery module -1, Digital display module -1, Graphic Display Module -1, Oxygen logger sensor -1, Temperature logger sensor -1, Conductivity logger sensor -1, pH logger sensor -1, Barometer logger sensor -1, Case for NeuLog sensor kit -1	unit	1	
14.	Dektop Computer CPU: AMD A8-7600K 3.1/3.8Ghz 6-Core FM2+ Kaveri Motherboard: MSI or Emaxx RAM: Kingston DDR4 8GB HDD: Seagate SATA 1TB Monitor: 19" ACER/AOC LED Keyboard: A4Tech PS/2 Mouse: A4Tech PS/2 Optical	unit	15	

	Case: ATX AVR			
15.	2-in 1 Ink Tank System Printer	unit	6	
	WEIGHT 3.7 kg (3700g)			
	DIMENSION (CM) (L X W X H) 55 x 29 x 19 cm			
	PRINTER RESOLUTIONS Up to 1200 × 6000 dpi			
1.6	CAPACITY 64 MB			
16.	Compound Microscope	unit	8	
	Specifications: Total magnifications: 300X, 600X, and 1200X			
	Body Type: durable metal arm			
	Illumination: built-in LED light and reflecting mirror			
	Eyepiece: holder type single			
	Stage: 70 x 65mm			
	Slide holder: dual spring clips			
	Accessory set: 1 shrimp hatchery, 1 specimen slicer, 5			
	prepared slides, 7 blank slides, 1 petri dish, 7 slide cover,			
	1 plastic tweezer, 1 graduated cylinder, 1 spare bulb, 7			
	statical slide covers, 7 slide labels, 1 plastic scalpel, 1			
	plastic spatula, 1 needle, 1 plastic stirring rod, 1 eosin, 1			
	gum media in a bottle, 1 sea salt, 1 brine shrimp eggs, 2			
	collecting vials, 2 AA batteries			
17.	Shipping weight: 5 lbs (2.5 kg) Binocular Microscope		2	
1/.	Specifications:	unit	3	
	Total magnification: 40X-64X-100X-160X-400X-640X-			
	1000X-1600X			
	Eyepieces: widefield WF10X and P16X			
	Objectives: achromatic DIN 4X, 10X, 40X(S), 100X(S,			
	Oil)			
	Viewing head: 45°Inclined 360°swiveling binocular			
	Interpupillary distance: sliding adjustable 2-3/16" ~ 2-			
	15/16"(55~75mm)			
	Diopter: adjustable on both ocular eyetubes			
	Nosepiece: revolving quadruple			
	Stage: double layer X-Y mechanical stage with scales, size: 4-1/2"x 4-15/16" (115mm x 125mm), translation			
	range: 2-13/16" x 1-3/16" (70mm x 30mm)			
	Stage upward moving lock protects objectives and slides			
	Condenser: NA1.25 Abbe condenser with iris diaphragm			
	Illumination: transmitted (lower) LED light, intensity			
	adjustable			
	Focus: Coaxial coarse & fine knobs on both sides			
	Full solid metal frame construction with stain resistant			
	enamel finish			
	Power supply: AC/DC adapter, 100V-240V (UL			
	approved) Dimension: 0.1/16" v.7.1/8" v.12" (22 cm v.18 cm v.			
	Dimension: 9-1/16" x 7-1/8" x 13" (23cm x 18cm x 33cm)			
	Net weight: 7 lb 2 oz (3.25 kg)			
	Package weight: 9 lb (4 kg)			
18.	Human Anatomy Model	unit	1	
10.	85 cm, a unisex torso including 40 parts: torso, female	annt		
	breast plate, head, eyeball, brain (8 parts), vertebra			
	spinal nerves (4 parts), lung (4 parts), heart (2 parts),			
	trachea, esophagus and descending aorta, diaphragm,			
	liver, kidney, stomach (2 parts), intestines (4 parts), male			
	genitalia (4 parts), female genitalia with fetus (3 parts)			
19.	Human Torso Model (male & female)	unit	1	
	Between the trunk model is divided into 20: torso, head,			
	eye, brain, lung (2), (2) the heart, liver, gallbladder,			

	kidney stamoch (2 nicess) intestinal (2 nicess) the			1	1
	kidney, stomach (2 pieces), intestinal (2 pieces), the				
	male reproductive organs (2), (2) the female				
	reproductive organs and spinal cord. Size: 55 cm.				
	Packing: 6 PCS/box, 63 * 47 * 51 cm, 21 KGS				
20.	Electrolysis Apparatus	set	4		
20.	Comprises a pair of Carbon electrodes, tapered at one	300	7		
	end mounted at the base of clear transparent container				
	through holed rubber stoppers, which are insulated from				
	each other to prevent accidental short circuiting. The				
	container has a pair of 4mm color coded sockets near the				
	bottom for connections. Includes two graduated test				
	tubes, 10ml each, held firmly in spring clips.				
21.	Spectroscope	unit	3		
	To observe several spectra: continuous spectrum,	anne			
	emission spectrum, absorption spectrum and solar				
	spectrum.				
22.	Rotary Evaporator	unit	1		
	Specifications:	anne	_		
	Rotation speed: 20-260rpm				
	Rotation Speed Display: LCD				
	Titled Angel: 0-60°				
	Motor Power: 40W				
	Stroke Displacement: 150mm				
	Lifting: Manual				
	Temp. Range: Ambient - 180°				
	Bath Material: 304 SSL				
	Temp. Controller Display: LCD				
	Temp. Controller Mode: P.I.D.				
	Temp. Control Accuracy: ±1°C(Water), ±2°C (Oil)				
	Heating Power: 1300W Bath Capacity: 5L				
	Bath Diameter: 250mm				
	Evaporation Volume: 50-3000mL				
	Condenser Type: Vertical				
	Cooling Surface cm2: 1200				
	Protection class: IP20				
	Ambient Temperature: 0°C to 4°C				
	Dimensions (L×W×H) Inch: 15×14×28				
	Weight (Lbs): 51				
	Voltage: 110V,60Hz/ 230V, 50Hz				
23.	Basic Hemocytometer	unit	2		
	consists of a thick glass microscope slide with a				
	rectangular indentation that creates a chamber				
24.	Optic Bench Used in optical experiments to support	unit	4		
	various optical components, the study of the law of lens				
	imaging, focus measurement, with a microscope,				
	telescope, etc., for the students to use. Can also be done				
	in light of interference, diffraction, polarization and				
	other projection demonstration. The light fixture seat is				
	composed of a guide rail (including a support, a guide				
	rail length 1000mm), a sliding block, a scale and an				
	accessory.				
25.	Dynamic Trolley	set	1		
	consists of a rectangular body carried upon three low-				
	friction wheels and is supplied with one strong spring plunger and three dowel pegs.				
26.	Basic Optic System	cot	5		
∠0.	Accessories for the Optic Bench include: biconvex lens	set	3		
	2 blocks, convex lens				
	· /				•

				•
	1 block, biconcave lens 1 block, "1" word screen 1			
	block, 1 piece of white screen, five bar, frosted glass			
	screen (screen) 1 block, light source 1 set,a Candlestick,			
	guide rail and the datum plane of the parallelism error is			
	not greater than 1.00			
27			_	
27.	Boyle's Law Apparatus	set	6	
	The apparatus comprises a thick walled, wide-bore glass			
	tube mounted vertically in front of a scale graduated,			
	with closed end of the tube at the top and open bottom			
	end secured tightly on the thick-walled metal tube with			
	O-ring to get leak-proof joint.Other end of metal tube			
	connected to a cylindrical oil chamber filled with			
	colored oil and capable of withstanding high pressures.			
28.	Forensic Optical Comparator	set	1	
	Technical parameter as follows:			
	Dual screen projections			
	No image overlap			
	Dual 300-watt quartz projection lamps			
	Dual or simultaneous operation			
	Adjustable focusing platforms			
	Matched f / 3. 5 objective lenses			
	Dual power magnification (6. 5x and 10x)			
	Sliding turret with pre-focused illumination			
	Four-inch internal cooling fan			
	Thermal cutoff of fan below 100 degree f			
	Aluminum / steel construction			
	Hardwood formica-covered base			
	Easy access relamping doors			
	Viewing screen 6 1 / 2" x 15"			
	Sliding ambient light shield			
	Overall dimensions: 20 1 / 2" x 18" x20 1 / 2"			
29.	Training & Experimentation System for Students	set	1	
	(TESS) Advance Physics Basic Set Mechanics 1 &			
	accessories			
	Consist of the ff:			
	Measuring tape, $1 = 2 \text{ m}$ 1			
	TESS box, plastics, high, 305 x 425 x 150 mm 1			
	Lid for TESS box, plastic 1			
	Digital stop watch, 24 h, 1/100 s & 1 s 1			
	Beaker, 100 ml, low form, plastic 1			
	Beaker, 250 ml, low form, plastic 1			
	Graduated cylinder, 50ml, plastic 1			
	Set of precision weights, 1g-50g 1			
	Pipette with rubber bulb 1			
	Tipotto with rubber build			
	Support base variable 1			
	Support rod, stainless steel, 1 = 250 mm, d = 10 mm 1			
	Support rod with hole, stainless steel, 10 cm 2			
	Boss head 2			
	Fishing line, 1. 20m 1			
Ì	Weight holder for slotted weights 2			
	Slotted weight, 10 g, black 4			
	Slotted weight, 10 g, black 4 Slotted weight, 50 g, black 3			
	Slotted weight, 10 g, black 4 Slotted weight, 50 g, black 3 Helical spring, 3 N/m 1			
	Slotted weight, 10 g, black 4 Slotted weight, 50 g, black 3 Helical spring, 3 N/m 1 Helical spring, 20 N/m 1			
	Slotted weight, 10 g, black 4 Slotted weight, 50 g, black 3 Helical spring, 3 N/m 1 Helical spring, 20 N/m 1 Pulley, movable, dia.65mm, w. hook 1			
	Slotted weight, 10 g, black 4 Slotted weight, 50 g, black 3 Helical spring, 3 N/m 1 Helical spring, 20 N/m 1			
	Slotted weight, 10 g, black 4 Slotted weight, 50 g, black 3 Helical spring, 3 N/m 1 Helical spring, 20 N/m 1 Pulley, movable, dia.65mm, w. hook 1			
	Slotted weight, 10 g, black 4 Slotted weight, 50 g, black 3 Helical spring, 3 N/m 1 Helical spring, 20 N/m 1 Pulley, movable, dia.65mm, w. hook 1 Rod for pulley 1			
	Slotted weight, 10 g, black 4 Slotted weight, 50 g, black 3 Helical spring, 3 N/m 1 Helical spring, 20 N/m 1 Pulley, movable, dia.65mm, w. hook 1 Rod for pulley 1 Pulleys, double in line 2			

	Spring balance, transparent, 2 N 1				· · · · · · · · · · · · · · · · · · ·	
	Spring balance holder 2					
	Aluminium column 1					
	Steel Column nickel-plated 1					
	Holding pin 1					
	Balance pan, plastic 2					
	Lever 1					
	Pointer for lever 1					
	Plate with scale 1					
	Pulley, movable, dia.40mm, w. hook 1					
	Steel pellets, $d = 2 \text{ mm}$, 120 g 1					
	Wood column 1					
	Glass tube holder with tape measure clamp 1					
	TESS advanced Mechanics ME 1 consumables for 10					
	Groups 1					
	TESS advanced Physics manual Mechanics 1 to 5					
	Software interTESS Physics, Mechanics, DVD 1					
20	TESS Advance Physics Set Heat 1 & accessories		0.6±	1		
30.			set	1		
	Consist of the ff:					
	Measuring tape, $l = 2 \text{ m}$ 1					
	TESS box, plastics, high, 305 x 425 x 150 mm 1					
	Lid for TESS box, plastic 1					
	Digital stop watch, 24 h, 1/100 s & 1 s 1					
	Wire gauze 160 mm x 160 mm, ceramic cen. 1					
	Beaker, 100 ml, low form, plastic 1					
	Erlenmeyer flask, wide neck, 250ml 1					
	Erlenmeyer flask, wide-neck, 100ml 1					
	Graduated cylinder 100 ml, PP transparent	1				
	Ring with boss head, i. d. = 10 cm 1	1				
	Universal clamp 1					
	Students thermometer, -10+110°C, 1 = 180 mm 1					
	Students thermometer, $-10+110$ °C, $1 = 230$ mm 1					
	Spoon, w. spatula end, 18 cm, plastic 1					
	Rubber stopper 26/32, 1 hole 7 mm 1					
	Rubber stopper 26/32, 2 holes 7 mm 1					
	Silicone tubing i.d. 7mm 2					
	Beaker, low, BORO.,3.3, 250ml	1				
	Beaker, low, BORO.,3.3, 400ml	1				
	Pipette with rubber bulb 1	•				
	Support base variable 1					
	Support rod, stainless steel, $l = 250 \text{ mm}$, $d = 10 \text{ mm } 1$					
	**					
	Boss head 2					
	Fishing line, 1. 20m 1					
	Thermometer, non-graduated 1					
	Lid for student calorimeter 1					
	Agitator rod 1					
	Felt sheet 100 mm x 100 mm 2					
	Heating coil with sockets 1					
	Glass tube holder with tape measure clamp 1					
	Connecting cord, 32 A, 500 mm, blue 2					
	, , ,					
	TESS advanced Heat 1 necessary accessories for 1					
	group1					
	TESS advanced Heat 1 consumables for 10 groups 1					
	TESS advanced Physics manual Heat 1					
	Software interTESS Physics, Heat, DVD 1					
31.	Linear Air Track Kit w/ accessories		cot			
31.	is a set of mechanical demonstration experiment, the		set	4		
	time is measured by digital timer, air cushion guide is					I

	used for small gas source, and the products can be used in many kinds of mechanical experiments such as average speed, acceleration and elastic collision.			
32.	Digital Oscilloscope 100MHz with lock screen feature inc. probes and all standard accessories	unit	1	
33.	Frequency Counters 1Hz – 2.5GHz including connectors and other sets of accessories, manual and extensions	unit	1	
34.	Audio Frequency Generator with probes, connectors & other set output frequency of 10 Hz to 1 MHz. It has a sine waveform that is >5 Vrms, and square waveform of >10 Vp-p. It also has an external synchronization that has 3% frequency, and weight is approx. 3.5kg.	unit	2	
35.	TIG Machine Main Voltage(V): 220-415 Frequency(HZ): 50/60 Rated Input Capacity(KVA): 6.3 Power Facto: cosø0.93 Max No-load Voltage(V): 56 Current Range(A): 20-250 Rated Duty Cycle: 85% Insulation Class: B Protection Degree: IP21S Packing Dimension(cm): 50*30*36 Gross Weight(KG): 33.5 Standard Accessories: 1. 3.0m cable TIG torch welding with holder 1PC 2. 1.5m cable with electrode holder 1PC 3. 1.5m cable with earth clamp 1PC 4. hand-held shield with glass 1PC	unit	5	
36.	Diesel Engine 2L, surplus or second hand but in good working condition. Engine only without transmission.	unit	1	
37.	Handheld Global Positioning Ssystem Features and Benefits: • Automatic routing (turn by turn routing on roads): yes (with optional mapping for detailed roads) • Electronic compass: yes (tilt-compensated, 3-axis) • Touchscreen: yes • Barometric altimeter: yes • Camera: no • Geocaching-friendly: yes (paperless) • Custom maps compatible: yes • Photo navigation (navigate to geotagged photos): yes • Hunt/fish calendar: yes • Sun and moon information: yes • Tide tables: Yes (with optional Bluechart) • Area calculation: yes • Custom POIs (ability to add additional points of interest): yes • Unit-to-unit transfer (shares data wirelessly with similar units): yes (plus images and custom maps) • Picture viewer: yes • Garmin Connect™ compatible (online community where you analyze, categorize and share data): yes	unit	3	

20	Ci. 3.6			ı	I
38.	Stereo Microscope	unit	4		
	Total magnification: 20X, 60X				
	Eyepieces: wide field WF20X				
	Objectives: rotational 1X & 3X				
	Head: 45°Inclined binocular				
	Left ocular-tube diopter adjustment ±5dp				
	Interpupillary distance: 2-3/16" ~ 2-15/16" (55mm -				
	75mm)				
	Working distance: 2-1/4" (57mm)				
	Incident (upper) illuminator: 12V/10W tungsten				
	Transmitted (lower) illuminator: 12V/10W tungsten				
	Easy illumination mode switch: [upper] [off] [lower]				
	Adjustable focus knob tension				
	Frosted glass stage plate: 3-3/4" (95mm) in diameter				
	White/black plastic stage plate: 3-3/4" (95mm) in				
	diameter				
	Head vertical moving range (along the pillar): 2-3/4"				
	(70mm)				
	Focusing adjustment range: 1-5/8" (42mm)				
	Power supply: 110V (US and Canada)				
	Digital camera:				
	- True color 640x480 pixels (0.3MP)				
	- Frame speed: 30fps at 640x480				
	- Software compatible with Windows operating systems				
	- Offers capturing still images, stitching, EDF, video				
	recording and measurement functions				
	- USB2.0 cable included				
	Cleaning Pack:				
	- 100 4"x6" cotton lens cleaning sheets				
	> Brush length: 5-1/2" (13.5cm)				
	- 100ml of cleaning solution				
	- Cleaning cloth size: 5-7/8" x 6-3/4" (15 x 17cm)				
	Microscope book: "The World of The Microscope"				
	Dimension: 9" x 4-3/4" x 12" (23cm x 12cm x 30.5cm)				
	Shipping package: 8 lb (4 kg)				
39.	Munsell Color Chart including manual	booklet	2		
	The Munsell Soil Color Charts is an affordable way to				
	evaluate the type of soil that is present within a given				
	area. The book is set up to allow users to make soil color				
	evaluations in the field				
	quickly and easily. The soil classification system that				
	has been developed around the Munsell color system is				
	an established and accepted process to assign a soil type.				
40.	Water Analyzer Kit inc. reagents	set	2		
	The set is a chemical test kit that measures six				
	parameters common in water quality testing: alkalinity,				
	chloride, hardness, iron, pH, and sulfite. This kit is				
	equipped with all the necessary reagents and equipment				
	to perform over 100 tests for each parameter, with the				
	exception of iron, which includes reagents for 50 tests.				
	pH is obtained with pHep®, pH electronic tester, which				
	guarantees greater accuracy and a longer life than				
	traditional litmus paper.				
41.	Drying/Warming Cabinet	unit	1		
	Capacity: At least 100L				
	Maximum temperature: 50°C above ambient				
	Easy-clean powder coated body				
	Thermostat control for set temperature				
	Toughened glass doors, sliding				
	Three shelves		<u></u>		
42.	UV Light Meter	unit	4		
	÷	I	l	l	l

		1		_	1
	Measurable of UVA & UVB				
	LSI-circuit use provides high reliability and durability				
	3 3/4 LCD display, maximum indication 3,999				
	Range: 0~40mW/cm ²				
	3 range: 400μW/cm ² , 4,000μW/cm ² , 40mW/cm ²				
	UV sensor spectrum: 290~390nm				
	Accuracy: ±(4%FS+2 digit)				
	Sensor structure: The exclusive UV photo diode & UV				
	color correction filter.				
	Sampling Time: 0.5 second				
	Operating Temperature: -10~40°C(14~104°F)				
	Operating Humidity: 0~70%Rh				
	Over-input: Indication of "OL".				
	Peak hold.				
43.	Water Activity Meter	unit	1		
	Working Temp:0-50°C				
	MeasurementAccuracy:				
	Temperature, ±0.5°C				
	Water Activity, ± 0.015 (@25°C)				
	, , ,				
	Display: LCD			1	
	Configuration: Micro printer				
	Measurement time: 5-40 min				
44.	Electronic Titrator	unit	1		
	Volume range: 0.01mL-99.99mL, Max piston lift is				
	10mL, resolution is 10μL				
	Volume accuracy: R=0.2% CV=0.07%				
	Velocity: 16 stages				
	Operating temperature range: 10°C~30°C				
	Quality control: DIN EN ISO 8655				
	Control type: External control, including the stirrer and				
	the burette program				
45.	Rice Transplanter	unit	1		
	4 rows; walk behind type				
	Equipped with hi-power advanced OHV gasoline				
	engine, offers efficient, low fuel consumption and yet				
	powerful operations, suitable to work even in harsh land				
	condition.				
	Equipped with large fuel filler and 4liter fuel tank,				
	enables comfortable refueling.				
46.	Rice Reaper	unit	1		
	ENGINE TYPE: 4-Cycle, Air-Cooled				
	ENGINE FUEL: Gasoline				
	NET WEIGHT (KG): 116				
	WORKING CAPACITY HR/HA(HR/ACRE): 3-4 (1. 2-				
	1.6)				
	OVERALL LENGTH (MM): 2390				
	OVERALL WIDTH (MM): 1470				
	HEIGHT (UP TO HANDLE) (MM): 900				
	CUTTING WIDTH (CM): 120			1	
47.	Rice Mill with complete accessories and power	unit	1		
.,.	source(engine/motor)	3	-	1	
	HP: 4"X8"			1	
	CAPACITY (KG/HR): 600-650			1	
48.	Diesel Engine	unit	1	1	
70.	Brand new, 10Hp; single cylinder diesel engine. To be	unit		1	
	use for instructional purposes			1	
49.	Gasoline Engine	:+	1	1	
49.		unit	1		
	Brand new 5.5Hp; single cylinder gasoline engine. To be use for instructional purposes			1	
	i use foi instructional dufdoses	ı	1		i

50	Waterprrof Portable Dissolved Oxygen & BOD		1	
50.	Specifications	unit	1	
	DO Range 0.00 to 50.00 ppm (mg/L); 0.0 to 600.0% saturation			
	DO Resolution 0.01 ppm (mg/L); 0.1% saturation			
	DO Accuracy ±1.5% of reading ±1 digit			
	DO Calibration automatic one or two point at 100%			
	saturation (8.26 mg/L) and 0% saturation (0 mg/L).			
	Atmospheric Pressure Range 450 to 850 mmHg			
	Atmospheric Pressure Resolution 1 mmHg			
	Atmospheric Pressure Accuracy ± 3 mmHg within			
	$\pm 15\%$ from the calibration point			
	Atmospheric Pressure Calibration one point at any in			
	range pressure value			
	Temperature Range -20.0 to 120.0°C (-4.0 to 248.0°F)			
	Temperature Resolution 0.1°C (0.1°F)			
	Temperature Accuracy ±0.2°C; ±0.4°F (excluding probe			
	error)			
	Temperature Calibration one or two point at any in range			
	temperature value			
	Temperature Compensation automatic from 0 to 50°C			
	(32 to 122°F)			
	Measurement Modes direct DO; BOD (biochemical			
	oxygen demand); OUR (oxygen uptake rate); SOUR			
	(specific oxygen uptake rate)			
	Barometric Compensation automatic from 450 to 850			
	mmHg			
	Salinity Compensation automatic from 0 to 70 g/L			
	Electrode/Probe HI764073 polarographic DO probe with			
	protective sleeve, internal temperature sensor, DIN			
	connector and 4m (13') cable (included)			
	Log-on-demand up to 400 samples			
	PC Connectivity opto-isolated USB with optional HI			
	92000 software and micro USB cable			
	Battery Type/Life 1.5V AA batteries (4) / approximately			
	200 hours of continuous use without backlight (50 hours			
	with backlight)			
	Auto-off user selectable: 5, 10, 30, 60 min or can be			
	disabled			
	Environment 0 to 50°C (32 to 122°F); RH 100% (IP67)			
	Dimensions 185 x 93 x 35.2 mm (7.3 x 3.6 x 1.4")			
	Weight 400 g (14.2 oz.)			
51.	COD Reactor	unit	1	
	Specifications:			
	Power supply, V / Hz 230 / 50-60 or			
	150 / 50-60 (selectable)			
	Power, W 550			
	Dimensions, L x W x H, mm 248 x 219 x 171			
	Weight, kg 3.9			
	Construction materials			
	Housing: ABS			
	Protection grid: PPS			
	Lid: PC			
	Block Insert: PBT			
	Heating Block: Aluminum			
	Holes in block 24 - 16.2 mm $\emptyset \pm 0.2$ mm			
	Selectable temperatures, °C 100 / 120 / 150			
	Probe type Pt100 A class			
	Temperature stability at the Pt100, °C ±1			
	Selectable cycle times, min. 30 / 60 / 120 / continuous			
	(∞)			
	Heating up time from 20°C to 150°C, min. 12			

52	Thermoregulation Microprocessor Protection against overheating, °C At the aluminum block for 190 Beeper, dB Maximum 88 Environmental conditions for operation Temperature, °C 10 to 40 Humidity, % Maximum 85 Turbidity Meter		1		
32.	Specifications: Measurement Method: ISO 7027 nephelometric method (90°) Measurement Range: 0~1100 NTU/FNU, 0~275 EBC, 0~9999 ASBC Resolution: 0.01 (0~100 NTU), 0.1 (100~999 NTU), 1 (999~1100 NTU) Accuracy: ±2% (0~500 NTU), ±3% (501~1100 NTU) Calibration Standards: 0.02, 10, 200, 500, 1000 NTU or User-Defined Light Source: Infrared-emitting diode (850 nm wavelength) Detector: Silicon Photodiode Stray Light: < 0.02 NTU Sample Vials: 60(H)×25(Dia.)mm Power Off: Manual or Automatic (15 minutes) Memory: Stores up to 100 data sets Output: USB Communication Interface Operating Temperature: 0~60°C Power Requirements: 1×9V Battery Dimensions: 180(L)×85(W)×70(H)mm	unit	•		
	Weight: 300g	TOTAL A	MOU	NT	

Signature of	Bidder:	

Section II. Instructions to Bidders

Notes on the Instructions to Bidders

This Section of the Bidding Documents provides the information necessary for bidders to prepare responsive bids, in accordance with the requirements of the Procuring Entity. It also provides information on bid submission, eligibility check, opening and evaluation of bids, post-qualification and on the award of contract.

This Section also contains provisions that are to be used unchanged. Section III consists of provisions that supplement, amend, or specify in detail, information or requirements included in Section II which are specific to each procurement.

Matters governing performance of the Supplier, payments under the contract, or matters affecting the risks, rights, and obligations of the parties under the contract are not normally included in this Section, but rather under Section IV. General Conditions of Contract (GCC), and/or Section V. Special Conditions of Contract (SCC). If duplication of a subject is inevitable in other sections of the document prepared by the Procuring Entity, care must be exercised to avoid contradictions between clauses dealing with the same matter.

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A. General

1. Scope of Bid

- 1.1. The Procuring Entity named in the **BDS** invites bids for the supply and delivery of the Goods as described in Section VII. Technical Specifications.
- 1.2. The name, identification, and number of lots specific to this bidding are provided in the **BDS**. The contracting strategy and basis of evaluation of lots is described in **ITB** Clause 28.

2. Source of Funds

The Procuring Entity has a budget or has received funds from the Funding Source named in the <u>BDS</u>, and in the amount indicated in the <u>BDS</u>. It intends to apply part of the funds received for the Project, as defined in the <u>BDS</u>, to cover eligible payments under the contract.

3. Corrupt, Fraudulent, Collusive, and Coercive Practices

- 3.1. Unless otherwise specified in the <u>BDS</u>, the Procuring Entity as well as the bidders and suppliers shall observe the highest standard of ethics during the procurement and execution of the contract. In pursuance of this policy, the Procuring Entity:
 - (a) defines, for purposes of this provision, the terms set forth below as follows:
 - (i) "corrupt practice" means behavior on the part of officials in the public or private sectors by which they improperly and unlawfully enrich themselves, others, or induce others to do so, by misusing the position in which they are placed, and includes the offering, giving, receiving, or soliciting of anything of value to influence the action of any such official in the procurement process or in contract execution; entering, on behalf of the government, into any contract or transaction manifestly and grossly disadvantageous to the same, whether or not the public officer profited or will profit thereby, and similar acts as provided in RA 3019.
 - (ii) "fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Procuring Entity, and includes collusive practices among Bidders (prior to or after bid submission) designed to establish bid prices at artificial, noncompetitive levels and to deprive the Procuring Entity of the benefits of free and open competition.
 - (iii) "collusive practices" means a scheme or arrangement between two or more Bidders, with or without the knowledge of the

Procuring Entity, designed to establish bid prices at artificial, non-competitive levels.

- (iv) "coercive practices" means harming or threatening to harm, directly or indirectly, persons, or their property to influence their participation in a procurement process, or affect the execution of a contract;
- (v) "obstructive practice" is
 - (aa) deliberately destroying, falsifying, altering concealing of evidence material to an administrative proceedings or investigation or making false statements to investigators in order to materially impede an administrative proceedings or investigation of the Procuring Entity or any foreign government/foreign or international financing institution into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the administrative proceedings or investigation or from pursuing such proceedings or investigation; or
 - (bb) acts intended to materially impede the exercise of the inspection and audit rights of the Procuring Entity or any foreign government/foreign or international financing institution herein.
- (b) will reject a proposal for award if it determines that the Bidder recommended for award has engaged in any of the practices mentioned in this Clause for purposes of competing for the contract.
- 3.2. Further, the Procuring Entity will seek to impose the maximum civil, administrative, and/or criminal penalties available under applicable laws on individuals and organizations deemed to be involved in any of the practices mentioned in **ITB** Clause 3.1(a).
- 3.3. Furthermore, the Funding Source and the Procuring Entity reserve the right to inspect and audit records and accounts of a bidder or supplier in the bidding for and performance of a contract themselves or through independent auditors as reflected in the **GCC** Clause 3.

4. Conflict of Interest

4.1. All Bidders found to have conflicting interests shall be disqualified to participate in the procurement at hand, without prejudice to the imposition of appropriate administrative, civil, and criminal sanctions. A Bidder may be considered to have conflicting interests with another Bidder in any of the events described in paragraphs (a) through (c) below and a general conflict of

interest in any of the circumstances set out in paragraphs (d) through (g) below:

- (a) A Bidder has controlling shareholders in common with another Bidder;
- (b) A Bidder receives or has received any direct or indirect subsidy from any other Bidder;
- (c) A Bidder has the same legal representative as that of another Bidder for purposes of this bid;
- (d) A Bidder has a relationship, directly or through third parties, that puts them in a position to have access to information about or influence on the bid of another Bidder or influence the decisions of the Procuring Entity regarding this bidding process;
- (e) A Bidder submits more than one bid in this bidding process. However, this does not limit the participation of subcontractors in more than one bid;
- (f) A Bidder who participated as a consultant in the preparation of the design or technical specifications of the Goods and related services that are the subject of the bid; or
- (g) A Bidder who lends, or temporarily seconds, its personnel to firms or organizations which are engaged in consulting services for the preparation related to procurement for or implementation of the project, if the personnel would be involved in any capacity on the same project.
- 4.2. In accordance with Section 47 of the IRR of RA 9184, all Bidding Documents shall be accompanied by a sworn affidavit of the Bidder that it is not related to the Head of the Procuring Entity (HoPE), members of the Bids and Awards Committee (BAC), members of the Technical Working Group (TWG), members of the BAC Secretariat, the head of the Project Management Office (PMO) or the end-user unit, and the project consultants, by consanguinity or affinity up to the third civil degree. On the part of the Bidder, this Clause shall apply to the following persons:
 - (a) If the Bidder is an individual or a sole proprietorship, to the Bidder himself;
 - (b) If the Bidder is a partnership, to all its officers and members;
 - (c) If the Bidder is a corporation, to all its officers, directors, and controlling stockholders;
 - (d) If the Bidder is a cooperative, to all its officers, directors, and controlling shareholders or members; and

(e) If the Bidder is a joint venture (JV), the provisions of items (a), (b), (c), or (d) of this Clause shall correspondingly apply to each of the members of the said JV, as may be appropriate.

Relationship of the nature described above or failure to comply with this Clause will result in the automatic disqualification of a Bidder.

5. Eligible Bidders

- 5.1. Unless otherwise provided in the **<u>BDS</u>**, the following persons shall be eligible to participate in this bidding:
 - (a) Duly licensed Filipino citizens/sole proprietorships;
 - (b) Partnerships duly organized under the laws of the Philippines and of which at least sixty percent (60%) of the interest belongs to citizens of the Philippines;
 - (c) Corporations duly organized under the laws of the Philippines, and of which at least sixty percent (60%) of the outstanding capital stock belongs to citizens of the Philippines;
 - (d) Cooperatives duly organized under the laws of the Philippines; and
 - (e) Persons/entities forming themselves into a Joint Venture (JV), *i.e.*, a group of two (2) or more persons/entities that intend to be jointly and severally responsible or liable for a particular contract: Provided, however, that Filipino ownership or interest of the JV concerned shall be at least sixty percent (60%).
- 5.2. Foreign bidders may be eligible to participate when any of the following circumstances exist, as specified in the **BDS**:
 - (a) When a Treaty or International or Executive Agreement as provided in Section 4 of RA 9184 and its IRR allow foreign bidders to participate;
 - (b) Citizens, corporations, or associations of a country, the laws or regulations of which grant reciprocal rights or privileges to citizens, corporations, or associations of the Philippines;
 - (c) When the Goods sought to be procured are not available from local suppliers; or
 - (d) When there is a need to prevent situations that defeat competition or restrain trade.
- 5.3. Government owned or –controlled corporations (GOCCs) may be eligible to participate only if they can establish that they (a) are legally and financially autonomous, (b) operate under commercial law, and (c) are not attached agencies of the Procuring Entity.

5.4. Unless otherwise provided in the <u>BDS</u>, the Bidder must have completed a Single Largest Completed Contract (SLCC) similar to the Project and the value of which, adjusted, if necessary, by the Bidder to current prices using the Philippine Statistics Authority (PSA) consumer price index, must be at least equivalent to a percentage of the ABC stated in the <u>BDS</u>.

For this purpose, contracts similar to the Project shall be those described in the **<u>BDS</u>**, and completed within the relevant period stated in the Invitation to Bid and **ITB** Clause 12.1(a)(ii).

5.5. The Bidder must submit a computation of its Net Financial Contracting Capacity (NFCC), which must be at least equal to the ABC to be bid, calculated as follows:

NFCC = [(Current assets minus current liabilities) (15)] minus the value of all outstanding or uncompleted portions of the projects under ongoing contracts, including awarded contracts yet to be started, coinciding with the contract to be bid.

The values of the domestic bidder's current assets and current liabilities shall be based on the latest Audited Financial Statements submitted to the BIR.

For purposes of computing the foreign bidders' NFCC, the value of the current assets and current liabilities shall be based on their audited financial statements prepared in accordance with international financial reporting standards.

If the prospective bidder opts to submit a committed Line of Credit, it must be at least equal to ten percent (10%) of the ABC to be bid. If issued by a foreign universal or commercial bank, it shall be confirmed or authenticated by a local universal or commercial bank.

6. Bidder's Responsibilities

- 6.1. The Bidder or its duly authorized representative shall submit a sworn statement in the form prescribed in Section VIII. Bidding Forms as required in **ITB** Clause 12.1(b)(iii).
- 6.2. The Bidder is responsible for the following:
 - (a) Having taken steps to carefully examine all of the Bidding Documents;
 - (b) Having acknowledged all conditions, local or otherwise, affecting the implementation of the contract;
 - (c) Having made an estimate of the facilities available and needed for the contract to be bid, if any;
 - (d) Having complied with its responsibility to inquire or secure Supplemental/Bid Bulletin(s) as provided under **ITB** Clause 10.4.

- (e) Ensuring that it is not "blacklisted" or barred from bidding by the GOP or any of its agencies, offices, corporations, or LGUs, including foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the GPPB;
- (f) Ensuring that each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;
- (g) Authorizing the HoPE or its duly authorized representative/s to verify all the documents submitted;
- (h) Ensuring that the signatory is the duly authorized representative of the Bidder, and granted full power and authority to do, execute and perform any and all acts necessary and/or to represent the Bidder in the bidding, with the duly notarized Secretary's Certificate attesting to such fact, if the Bidder is a corporation, partnership, cooperative, or joint venture;
- (i) Complying with the disclosure provision under Section 47 of RA 9184 and its IRR in relation to other provisions of RA 3019;
- (j) Complying with existing labor laws and standards, in the case of procurement of services; Moreover, bidder undertakes to:
 - (i) Ensure the entitlement of workers to wages, hours of work, safety and health and other prevailing conditions of work as established by national laws, rules and regulations; or collective bargaining agreement; or arbitration award, if and when applicable.

In case there is a finding by the Procuring Entity or the DOLE of underpayment or non-payment of workers' wage and wage-related benefits, bidder agrees that the performance security or portion of the contract amount shall be withheld in favor of the complaining workers pursuant to appropriate provisions of Republic Act No. 9184 without prejudice to the institution of appropriate actions under the Labor Code, as amended, and other social legislations.

(ii) Comply with occupational safety and health standards and to correct deficiencies, if any.

In case of imminent danger, injury or death of the worker, bidder undertakes to suspend contract implementation pending clearance to proceed from the DOLE Regional Office and to comply with Work Stoppage Order; and

- (iii) Inform the workers of their conditions of work, labor clauses under the contract specifying wages, hours of work and other benefits under prevailing national laws, rules and regulations; or collective bargaining agreement; or arbitration award, if and when applicable, through posting in two (2) conspicuous places in the establishment's premises; and
- (k) Ensuring that it did not give or pay, directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.

Failure to observe any of the above responsibilities shall be at the risk of the Bidder concerned.

- 6.3. The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Documents.
- 6.4. It shall be the sole responsibility of the Bidder to determine and to satisfy itself by such means as it considers necessary or desirable as to all matters pertaining to the contract to be bid, including: (a) the location and the nature of this Project; (b) climatic conditions; (c) transportation facilities; and (d) other factors that may affect the cost, duration, and execution or implementation of this Project.
- 6.5. The Procuring Entity shall not assume any responsibility regarding erroneous interpretations or conclusions by the prospective or eligible bidder out of the data furnished by the procuring entity. However, the Procuring Entity shall ensure that all information in the Bidding Documents, including bid/supplemental bid bulletin/s issued, are correct and consistent.
- 6.6. Before submitting their bids, the Bidder is deemed to have become familiar with all existing laws, decrees, ordinances, acts and regulations of the Philippines which may affect this Project in any way.
- 6.7. The Bidder shall bear all costs associated with the preparation and submission of his bid, and the Procuring Entity will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.
- 6.8. The Bidder should note that the Procuring Entity will accept bids only from those that have paid the applicable fee for the Bidding Documents at the office indicated in the Invitation to Bid.

7. Origin of Goods

Unless otherwise indicated in the <u>BDS</u>, there is no restriction on the origin of goods other than those prohibited by a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, subject to **ITB** Clause 27.1.

8. Subcontracts

- 8.1. Unless otherwise specified in the <u>BDS</u>, the Bidder may subcontract portions of the Goods to an extent as may be approved by the Procuring Entity and stated in the <u>BDS</u>. However, subcontracting of any portion shall not relieve the Bidder from any liability or obligation that may arise from the contract for this Project.
- 8.2. Subcontractors must submit the documentary requirements under **ITB** Clause 12 and comply with the eligibility criteria specified in the **BDS**. In the event that any subcontractor is found by the Procuring Entity to be ineligible, the subcontracting of such portion of the Goods shall be disallowed.
- 8.3. The Bidder may identify the subcontractor to whom a portion of the Goods will be subcontracted at any stage of the bidding process or during contract implementation. If the Bidder opts to disclose the name of the subcontractor during bid submission, the Bidder shall include the required documents as part of the technical component of its bid.

B. Contents of Bidding Documents

9. Pre-Bid Conference

- 9.1. (a) If so specified in the **BDS**, a pre-bid conference shall be held at the venue and on the date indicated therein, to clarify and address the Bidders' questions on the technical and financial components of this Project.
 - (b) The pre-bid conference shall be held at least twelve (12) calendar days before the deadline for the submission and receipt of bids, but not earlier than seven (7) calendar days from the posting of the invitation to bid/bidding documents in the PhilGEPS website. If the Procuring Entity determines that, by reason of the method, nature, or complexity of the contract to be bid, or when international participation will be more advantageous to the GOP, a longer period for the preparation of bids is necessary, the pre-bid conference shall be held at least thirty (30) calendar days before the deadline for the submission and receipt of bids, as specified in the **BDS**.
- 9.2. Bidders are encouraged to attend the pre-bid conference to ensure that they fully understand the Procuring Entity's requirements. Non-attendance of the Bidder will in no way prejudice its bid; however, the Bidder is expected to know the changes and/or amendments to the Bidding Documents as recorded in the minutes of the pre-bid conference and the Supplemental/Bid Bulletin. The minutes of the pre-bid conference shall be recorded and prepared not later than five (5) calendar days after the pre-bid conference. The minutes shall be made available to prospective bidders not later than five (5) days upon written request.
- 9.3 Decisions of the BAC amending any provision of the bidding documents shall be issued in writing through a Supplemental/Bid Bulletin at least seven (7) calendar days before the deadline for the submission and receipt of bids.

10. Clarification and Amendment of Bidding Documents

- 10.1. Prospective bidders may request for clarification on and/or interpretation of any part of the Bidding Documents. Such request must be in writing and submitted to the Procuring Entity at the address indicated in the **BDS** at least ten (10) calendar days before the deadline set for the submission and receipt of Bids.
- 10.2. The BAC shall respond to the said request by issuing a Supplemental/Bid Bulletin, to be made available to all those who have properly secured the Bidding Documents, at least seven (7) calendar days before the deadline for the submission and receipt of Bids.
- 10.3. Supplemental/Bid Bulletins may also be issued upon the Procuring Entity's initiative for purposes of clarifying or modifying any provision of the Bidding Documents not later than seven (7) calendar days before the deadline for the submission and receipt of Bids. Any modification to the Bidding Documents shall be identified as an amendment.
- 10.4. Any Supplemental/Bid Bulletin issued by the BAC shall also be posted in the PhilGEPS and the website of the Procuring Entity concerned, if available, and at any conspicuous place in the premises of the Procuring Entity concerned. It shall be the responsibility of all Bidders who have properly secured the Bidding Documents to inquire and secure Supplemental/Bid Bulletins that may be issued by the BAC. However, Bidders who have submitted bids before the issuance of the Supplemental/Bid Bulletin must be informed and allowed to modify or withdraw their bids in accordance with ITB Clause 23.

C. Preparation of Bids

11. Language of Bids

The eligibility requirements or statements, the bids, and all other documents to be submitted to the BAC must be in English. If the eligibility requirements or statements, the bids, and all other documents submitted to the BAC are in foreign language other than English, it must be accompanied by a translation of the documents in English. The documents shall be translated by the relevant foreign government agency, the foreign government agency authorized to translate documents, or a registered translator in the foreign bidder's country; and shall be authenticated by the appropriate Philippine foreign service establishment/post or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. The English translation shall govern, for purposes of interpretation of the bid.

12. Documents Comprising the Bid: Eligibility and Technical Components

- 12.1. Unless otherwise indicated in the **BDS**, the first envelope shall contain the following eligibility and technical documents:
 - (a) Eligibility Documents –

Class "A" Documents:

- (i) PhilGEPS Certificate of Registration and Membership in accordance with Section 8.5.2 of the IRR, except for foreign bidders participating in the procurement by a Philippine Foreign Service Office or Post, which shall submit their eligibility documents under Section 23.1 of the IRR, provided, that the winning bidder shall register with the PhilGEPS in accordance with section 37.1.4 of the IRR.
- (ii) Statement of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; and

Statement of the Bidder's SLCC similar to the contract to be bid, in accordance with ITB Clause 5.4, within the relevant period as provided in the **BDS**.

The two statements required shall indicate for each contract the following:

- (ii.1) name of the contract;
- (ii.2) date of the contract;
- (ii.3) contract duration;
- (ii.4) owner's name and address;
 - (ii.5) kinds of Goods;
 - (ii.6) For Statement of Ongoing Contracts amount of contract and value of outstanding contracts;
 - (ii.7) For Statement of SLCC amount of completed contracts, adjusted by the Bidder to current prices using PSA's consumer price index, if necessary for the purpose of meeting the SLCC requirement;
 - (ii.8) date of delivery; and
 - (ii.9) end user's acceptance or official receipt(s) or sales invoice issued for the contract, if completed, which shall be attached to the statements.
 - (iii) NFCC computation in accordance with ITB Clause 5.5 or a committed Line of Credit from a universal or commercial bank.

Class "B" Document:

(iv) If applicable, the Joint Venture Agreement (JVA) in case the joint venture is already in existence, or duly notarized

statements from all the potential joint venture partners in accordance with Section 23.1(b) of the IRR.

(b) Technical Documents –

- (i) Bid security in accordance with **ITB** Clause 18. If the Bidder opts to submit the bid security in the form of:
 - (i.1) a bank draft/guarantee or an irrevocable letter of credit issued by a foreign bank, it shall be accompanied by a confirmation from a Universal or Commercial Bank; or
 - (i.2) a surety bond, it shall be accompanied by a certification by the Insurance Commission that the surety or insurance company is authorized to issue such instruments;
- (ii) Conformity with technical specifications, as enumerated and specified in Sections VI and VII of the Bidding Documents; and
- (iii) Sworn statement in accordance with Section 25.3 of the IRR of RA 9184 and using the form prescribed in Section VIII. Bidding Forms.
- (iv) For foreign bidders claiming eligibility by reason of their country's extension of reciprocal rights to Filipinos, a certification from the relevant government office of their country stating that Filipinos are allowed to participate in their government procurement activities for the same item or product.

13. Documents Comprising the Bid: Financial Component

- 13.1. Unless otherwise stated in the **BDS**, the financial component of the bid shall contain the following:
 - (a) Financial Bid Form, which includes bid prices and the applicable Price Schedules, in accordance with **ITB** Clauses 15.1 and 15.4;
 - (b) If the Bidder claims preference as a Domestic Bidder, a certification from the DTI issued in accordance with **ITB** Clause 27, unless otherwise provided in the **BDS**; and
 - (c) Any other document related to the financial component of the bid as stated in the **BDS**.
- 13.2. (a) Unless otherwise stated in the **BDS**, all bids that exceed the ABC shall not be accepted.

- (b) Unless otherwise indicated in the <u>BDS</u>, for foreign-funded procurement, a ceiling may be applied to bid prices provided the following conditions are met:
 - (i) Bidding Documents are obtainable free of charge on a freely accessible website. If payment of Bidding Documents is required by the procuring entity, payment could be made upon the submission of bids.
 - (ii) The procuring entity has procedures in place to ensure that the ABC is based on recent estimates made by the responsible unit of the procuring entity and that the estimates reflect the quality, supervision and risk and inflationary factors, as well as prevailing market prices, associated with the types of works or goods to be procured.
 - (iii) The procuring entity has trained cost estimators on estimating prices and analyzing bid variances.
 - (iv) The procuring entity has established a system to monitor and report bid prices relative to ABC and engineer's/procuring entity's estimate.
 - (v) The procuring entity has established a monitoring and evaluation system for contract implementation to provide a feedback on actual total costs of goods and works.

14. Alternative Bids

- 14.1 Alternative Bids shall be rejected. For this purpose, alternative bid is an offer made by a Bidder in addition or as a substitute to its original bid which may be included as part of its original bid or submitted separately therewith for purposes of bidding. A bid with options is considered an alternative bid regardless of whether said bid proposal is contained in a single envelope or submitted in two (2) or more separate bid envelopes.
- 14.2 Each Bidder shall submit only one Bid, either individually or as a partner in a JV. A Bidder who submits or participates in more than one bid (other than as a subcontractor if a subcontractor is permitted to participate in more than one bid) will cause all the proposals with the Bidder's participation to be disqualified. This shall be without prejudice to any applicable criminal, civil and administrative penalties that may be imposed upon the persons and entities concerned.

15. Bid Prices

15.1. The Bidder shall complete the appropriate Schedule of Prices included herein, stating the unit prices, total price per item, the total amount and the expected countries of origin of the Goods to be supplied under this Project.

- 15.2. The Bidder shall fill in rates and prices for all items of the Goods described in the Schedule of Prices. Bids not addressing or providing all of the required items in the Bidding Documents including, where applicable, Schedule of Prices, shall be considered non-responsive and, thus, automatically disqualified. In this regard, where a required item is provided, but no price is indicated, the same shall be considered as non-responsive, but specifying a zero (0) or a dash (-) for the said item would mean that it is being offered for free to the Government, except those required by law or regulations to be accomplished.
- 15.3. The terms Ex Works (EXW), Cost, Insurance and Freight (CIF), Cost and Insurance Paid to (CIP), Delivered Duty Paid (DDP), and other trade terms used to describe the obligations of the parties, shall be governed by the rules prescribed in the current edition of the International Commercial Terms (INCOTERMS) published by the International Chamber of Commerce, Paris.
- 15.4. Prices indicated on the Price Schedule shall be entered separately in the following manner:
 - (a) For Goods offered from within the Procuring Entity's country:
 - (i) The price of the Goods quoted EXW (ex works, ex factory, ex warehouse, ex showroom, or off-the-shelf, as applicable);
 - (ii) The cost of all customs duties and sales and other taxes already paid or payable;
 - (iii) The cost of transportation, insurance, and other costs incidental to delivery of the Goods to their final destination; and
 - (iv) The price of other (incidental) services, if any, listed in the **BDS**.
 - (b) For Goods offered from abroad:
 - (i) Unless otherwise stated in the <u>BDS</u>, the price of the Goods shall be quoted DDP with the place of destination in the Philippines as specified in the <u>BDS</u>. In quoting the price, the Bidder shall be free to use transportation through carriers registered in any eligible country. Similarly, the Bidder may obtain insurance services from any eligible source country.
 - (ii) The price of other (incidental) services, if any, listed in the **BDS**.
 - (c) For Services, based on the form which may be prescribed by the Procuring Entity, in accordance with existing laws, rules and regulations
- 15.5. Prices quoted by the Bidder shall be fixed during the Bidder's performance of the contract and not subject to variation or price escalation on any account. A

bid submitted with an adjustable price quotation shall be treated as non-responsive and shall be rejected, pursuant to **ITB** Clause 24.

All bid prices for the given scope of work in the contract as awarded shall be considered as fixed prices, and therefore not subject to price escalation during contract implementation, except under extraordinary circumstances. Upon the recommendation of the Procuring Entity, price escalation may be allowed in extraordinary circumstances as may be determined by the National Economic and Development Authority in accordance with the Civil Code of the Philippines, and upon approval by the GPPB. Nevertheless, in cases where the cost of the awarded contract is affected by any applicable new laws, ordinances, regulations, or other acts of the GOP, promulgated after the date of bid opening, a contract price adjustment shall be made or appropriate relief shall be applied on a no loss-no gain basis.

16. Bid Currencies

- 16.1. Prices shall be quoted in the following currencies:
 - (a) For Goods that the Bidder will supply from within the Philippines, the prices shall be quoted in Philippine Pesos.
 - (b) For Goods that the Bidder will supply from outside the Philippines, the prices may be quoted in the currency(ies) stated in the **BDS**. However, for purposes of bid evaluation, bids denominated in foreign currencies shall be converted to Philippine currency based on the exchange rate as published in the *Bangko Sentral ng Pilipinas* (BSP) reference rate bulletin on the day of the bid opening.
- 16.2. If so allowed in accordance with **ITB** Clause 16.1, the Procuring Entity for purposes of bid evaluation and comparing the bid prices will convert the amounts in various currencies in which the bid price is expressed to Philippine Pesos at the foregoing exchange rates.
- 16.3. Unless otherwise specified in the **BDS**, payment of the contract price shall be made in Philippine Pesos.

17. Bid Validity

- 17.1. Bids shall remain valid for the period specified in the **BDS** which shall not exceed one hundred twenty (120) calendar days from the date of the opening of bids.
- 17.2. In exceptional circumstances, prior to the expiration of the bid validity period, the Procuring Entity may request Bidders to extend the period of validity of their bids. The request and the responses shall be made in writing. The bid security described in **ITB** Clause 18 should also be extended corresponding to the extension of the bid validity period at the least. A Bidder may refuse the request without forfeiting its bid security, but his bid shall no longer be considered for further evaluation and award. A Bidder granting the request shall not be required or permitted to modify its bid.

18. Bid Security

18.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount stated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the following schedule:

Form of Bid Security	Amount of Bid Security (Not Less than the Percentage of the ABC)
(a) Cash or cashier's/manager's check issued by a Universal or Commercial Bank.	
For biddings conducted by LGUs, the Cashier's/Manager's Check may be issued by other banks certified by the BSP as authorized to issue such financial instrument.	
(b) Bank draft/guarantee or irrevocable letter of credit issued by a Universal or Commercial Bank: Provided, however, that it shall be confirmed or authenticated by a Universal or Commercial Bank, if issued by a foreign bank.	Two percent (2%)
For biddings conducted by LGUs, Bank Draft/Guarantee, or Irrevocable Letter of Credit may be issued by other banks certified by the BSP as authorized to issue such financial instrument.	
(c) Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security.	Five percent (5%)

The Bid Securing Declaration mentioned above is an undertaking which states, among others, that the Bidder shall enter into contract with the procuring entity and furnish the performance security required under ITB Clause 33.2, within ten (10) calendar days from receipt of the Notice of Award, and commits to pay the corresponding amount as fine, and be suspended for a period of time from being qualified to participate in any

- government procurement activity in the event it violates any of the conditions stated therein as provided in the guidelines issued by the GPPB.
- 18.2. The bid security should be valid for the period specified in the **BDS**. Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.
- 18.3. No bid securities shall be returned to Bidders after the opening of bids and before contract signing, except to those that failed or declared as post-disqualified, upon submission of a written waiver of their right to file a request for reconsideration and/or protest, or upon the lapse of the reglementary period to file a request for reconsideration or protest. Without prejudice on its forfeiture, bid securities shall be returned only after the Bidder with the Lowest Calculated Responsive Bid (LCRB) has signed the contract and furnished the performance security, but in no case later than the expiration of the bid security validity period indicated in **ITB** Clause 18.2.
- 18.4. Upon signing and execution of the contract pursuant to **ITB** Clause 32, and the posting of the performance security pursuant to **ITB** Clause 33, the successful Bidder's bid security will be discharged, but in no case later than the bid security validity period as indicated in the **ITB** Clause 18.2.
- 18.5. The bid security may be forfeited:
 - (a) if a Bidder:
 - (i) withdraws its bid during the period of bid validity specified in **ITB** Clause 17;
 - (ii) does not accept the correction of errors pursuant to **ITB** Clause 28.3(b);
 - (iii) has a finding against the veracity of any of the documents submitted as stated in **ITB** Clause 29.2;
 - (iv) submission of eligibility requirements containing false information or falsified documents;
 - (v) submission of bids that contain false information or falsified documents, or the concealment of such information in the bids in order to influence the outcome of eligibility screening or any other stage of the public bidding;
 - (vi) allowing the use of one's name, or using the name of another for purposes of public bidding;
 - (vii) withdrawal of a bid, or refusal to accept an award, or enter into contract with the Government without justifiable cause, after the Bidder had been adjudged as having submitted the LCRB;
 - (viii) refusal or failure to post the required performance security within the prescribed time;

- (ix) refusal to clarify or validate in writing its bid during postqualification within a period of seven (7) calendar days from receipt of the request for clarification;
- (x) any documented attempt by a Bidder to unduly influence the outcome of the bidding in his favor;
- (xi) failure of the potential joint venture partners to enter into the joint venture after the bid is declared successful; or
- (xii) all other acts that tend to defeat the purpose of the competitive bidding, such as habitually withdrawing from bidding, submitting late Bids or patently insufficient bid, for at least three (3) times within a year, except for valid reasons.
- (b) if the successful Bidder:
 - (i) fails to sign the contract in accordance with **ITB** Clause 32; or
 - (ii) fails to furnish performance security in accordance with **ITB** Clause 33.

19. Format and Signing of Bids

- 19.1. Bidders shall submit their bids through their duly authorized representative using the appropriate forms provided in Section VIII. Bidding Forms on or before the deadline specified in the **ITB** Clauses 21 in two (2) separate sealed bid envelopes, and which shall be submitted simultaneously. The first shall contain the technical component of the bid, including the eligibility requirements under **ITB** Clause 12.1, and the second shall contain the financial component of the bid. This shall also be observed for each lot in the case of lot procurement.
- 19.2. Forms as mentioned in **ITB** Clause 19.1 must be completed without any alterations to their format, and no substitute form shall be accepted. All blank spaces shall be filled in with the information requested.
- 19.3. The Bidder shall prepare and submit an original of the first and second envelopes as described in **ITB** Clauses 12 and 13. In addition, the Bidder shall submit copies of the first and second envelopes. In the event of any discrepancy between the original and the copies, the original shall prevail.
- 19.4. Each and every page of the Bid Form, including the Schedule of Prices, under Section VIII hereof, shall be signed by the duly authorized representative/s of the Bidder. Failure to do so shall be a ground for the rejection of the bid.
- 19.5. Any interlineations, erasures, or overwriting shall be valid only if they are signed or initialed by the duly authorized representative/s of the Bidder.

20. Sealing and Marking of Bids

- 20.1. Bidders shall enclose their original eligibility and technical documents described in **ITB** Clause 12 in one sealed envelope marked "ORIGINAL TECHNICAL COMPONENT", and the original of their financial component in another sealed envelope marked "ORIGINAL FINANCIAL COMPONENT", sealing them all in an outer envelope marked "ORIGINAL BID".
- 20.2. Each copy of the first and second envelopes shall be similarly sealed duly marking the inner envelopes as "COPY NO. ___ TECHNICAL COMPONENT" and "COPY NO. ___ FINANCIAL COMPONENT" and the outer envelope as "COPY NO. ___", respectively. These envelopes containing the original and the copies shall then be enclosed in one single envelope.
- 20.3. The original and the number of copies of the Bid as indicated in the **BDS** shall be typed or written in ink and shall be signed by the Bidder or its duly authorized representative/s.
- 20.4. All envelopes shall:
 - (a) contain the name of the contract to be bid in capital letters;
 - (b) bear the name and address of the Bidder in capital letters;
 - (c) be addressed to the Procuring Entity's BAC in accordance with **ITB** Clause 1.1;
 - (d) bear the specific identification of this bidding process indicated in the **ITB** Clause 1.2; and
 - (e) bear a warning "DO NOT OPEN BEFORE..." the date and time for the opening of bids, in accordance with **ITB** Clause 21.
- 20.5. Bid envelopes that are not properly sealed and marked, as required in the bidding documents, shall not be rejected, but the Bidder or its duly authorized representative shall acknowledge such condition of the bid as submitted. The BAC or the Procuring Entity shall assume no responsibility for the misplacement of the contents of the improperly sealed or marked bid, or for its premature opening.

D. Submission and Opening of Bids

21. Deadline for Submission of Bids

Bids must be received by the Procuring Entity's BAC at the address and on or before the date and time indicated in the **BDS**.

22. Late Bids

Any bid submitted after the deadline for submission and receipt of bids prescribed by the Procuring Entity, pursuant to **ITB** Clause 21, shall be declared "Late" and shall

not be accepted by the Procuring Entity. The BAC shall record in the minutes of bid submission and opening, the Bidder's name, its representative and the time the late bid was submitted.

23. Modification and Withdrawal of Bids

- 23.1. The Bidder may modify its bid after it has been submitted; provided that the modification is received by the Procuring Entity prior to the deadline prescribed for submission and receipt of bids. The Bidder shall not be allowed to retrieve its original bid, but shall be allowed to submit another bid equally sealed and properly identified in accordance with ITB Clause 20, linked to its original bid marked as "TECHNICAL MODIFICATION" or "FINANCIAL MODIFICATION" and stamped "received" by the BAC. Bid modifications received after the applicable deadline shall not be considered and shall be returned to the Bidder unopened.
- A Bidder may, through a Letter of Withdrawal, withdraw its bid after it has been submitted, for valid and justifiable reason; provided that the Letter of Withdrawal is received by the Procuring Entity prior to the deadline prescribed for submission and receipt of bids. The Letter of Withdrawal must be executed by the duly authorized representative of the Bidder identified in the Omnibus Sworn Statement, a copy of which should be attached to the letter.
- 23.3. Bids requested to be withdrawn in accordance with **ITB** Clause 23.1 shall be returned unopened to the Bidders. A Bidder, who has acquired the bidding documents, may also express its intention not to participate in the bidding through a letter which should reach and be stamped by the BAC before the deadline for submission and receipt of bids. A Bidder that withdraws its bid shall not be permitted to submit another bid, directly or indirectly, for the same contract.
- 23.4. No bid may be modified after the deadline for submission of bids. No bid may be withdrawn in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Financial Bid Form. Withdrawal of a bid during this interval shall result in the forfeiture of the Bidder's bid security, pursuant to **ITB** Clause 18.5, and the imposition of administrative, civil and criminal sanctions as prescribed by RA 9184 and its IRR.

24. Opening and Preliminary Examination of Bids

24.1. The BAC shall open the bids in public, immediately after the deadline for the submission and receipt of bids, as specified in the **BDS**. In case the Bids cannot be opened as scheduled due to justifiable reasons, the BAC shall take custody of the Bids submitted and reschedule the opening of Bids on the next working day or at the soonest possible time through the issuance of a Notice of

- Postponement to be posted in the PhilGEPS website and the website of the Procuring Entity concerned.
- 24.2. Unless otherwise specified in the <u>BDS</u>, the BAC shall open the first bid envelopes and determine each Bidder's compliance with the documents prescribed in **ITB** Clause 12, using a non-discretionary "pass/fail" criterion. If a Bidder submits the required document, it shall be rated "passed" for that particular requirement. In this regard, bids that fail to include any requirement or are incomplete or patently insufficient shall be considered as "failed". Otherwise, the BAC shall rate the said first bid envelope as "passed".
- 24.3. Unless otherwise specified in the <u>BDS</u>, immediately after determining compliance with the requirements in the first envelope, the BAC shall forthwith open the second bid envelope of each remaining eligible bidder whose first bid envelope was rated "passed". The second envelope of each complying bidder shall be opened within the same day. In case one or more of the requirements in the second envelope of a particular bid is missing, incomplete or patently insufficient, and/or if the submitted total bid price exceeds the ABC unless otherwise provided in ITB Clause 13.2, the BAC shall rate the bid concerned as "failed". Only bids that are determined to contain all the bid requirements for both components shall be rated "passed" and shall immediately be considered for evaluation and comparison.
- 24.4. Letters of Withdrawal shall be read out and recorded during bid opening, and the envelope containing the corresponding withdrawn bid shall be returned to the Bidder unopened.
- 24.5. All members of the BAC who are present during bid opening shall initial every page of the original copies of all bids received and opened.
- 24.6. In the case of an eligible foreign bidder as described in **ITB** Clause 5, the following Class "A" Documents may be substituted with the appropriate equivalent documents, if any, issued by the country of the foreign Bidder concerned, which shall likewise be uploaded and maintained in the PhilGEPS in accordance with Section 8.5.2 of the IRR:
 - (a) Registration certificate from the Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or CDA for cooperatives;
 - (b) Mayor's/Business permit issued by the local government where the principal place of business of the bidder is located; and
 - (c) Audited Financial Statements showing, among others, the prospective bidder's total and current assets and liabilities stamped "received" by the Bureau of Internal Revenue or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two years from the date of bid submission.
- 24.7. Each partner of a joint venture agreement shall likewise submit the requirements in **ITB** Clause 12.1(a)(i). Submission of documents required

- under **ITB** Clauses 12.1(a)(ii) to 12.1(a)(iii) by any of the joint venture partners constitutes compliance.
- 24.8. The Procuring Entity shall prepare the minutes of the proceedings of the bid opening that shall include, as a minimum: (a) names of Bidders, their bid price (per lot, if applicable, and/or including discount, if any), bid security, findings of preliminary examination, and whether there is a withdrawal or modification; and (b) attendance sheet. The BAC members shall sign the abstract of bids as read.
- 24.8 The bidders or their duly authorized representatives may attend the opening of bids. The BAC shall ensure the integrity, security, and confidentiality of all submitted bids. The Abstract of Bids as read and the minutes of the bid opening shall be made available to the public upon written request and payment of a specified fee to recover cost of materials.
- 24.9 To ensure transparency and accurate representation of the bid submission, the BAC Secretariat shall notify in writing all bidders whose bids it has received through its PhilGEPS-registered physical address or official e-mail address. The notice shall be issued within seven (7) calendar days from the date of the bid opening.

E. Evaluation and Comparison of Bids

25. Process to be Confidential

- 25.1. Members of the BAC, including its staff and personnel, as well as its Secretariat and TWG, are prohibited from making or accepting any kind of communication with any bidder regarding the evaluation of their bids until the issuance of the Notice of Award, unless otherwise allowed in the case of **ITB** Clause 26.
- 25.2. Any effort by a bidder to influence the Procuring Entity in the Procuring Entity's decision in respect of bid evaluation, bid comparison or contract award will result in the rejection of the Bidder's bid.

26. Clarification of Bids

To assist in the evaluation, comparison, and post-qualification of the bids, the Procuring Entity may ask in writing any Bidder for a clarification of its bid. All responses to requests for clarification shall be in writing. Any clarification submitted by a Bidder in respect to its bid and that is not in response to a request by the Procuring Entity shall not be considered.

27. Domestic Preference

27.1. Unless otherwise stated in the **<u>BDS</u>**, the Procuring Entity will grant a margin of preference for the purpose of comparison of bids in accordance with the following:

- (a) The preference shall be applied when the lowest Foreign Bid is lower than the lowest bid offered by a Domestic Bidder.
- (b) For evaluation purposes, the lowest Foreign Bid shall be increased by fifteen percent (15%).
- (c) In the event that the lowest bid offered by a Domestic Bidder does not exceed the lowest Foreign Bid as increased, then the Procuring Entity shall award the contract to the Domestic Bidder at the amount of the lowest Foreign Bid.
- (d) If the Domestic Bidder refuses to accept the award of contract at the amount of the Foreign Bid within two (2) calendar days from receipt of written advice from the BAC, the Procuring Entity shall award to the bidder offering the Foreign Bid, subject to post-qualification and submission of all the documentary requirements under these Bidding Documents.
- 27.2. A Bidder may be granted preference as a Domestic Bidder subject to the certification from the DTI that the Bidder is offering unmanufactured articles, materials or supplies of the growth or production of the Philippines, or manufactured articles, materials, or supplies manufactured or to be manufactured in the Philippines substantially from articles, materials, or supplies of the growth, production, or manufacture, as the case may be, of the Philippines.

28. Detailed Evaluation and Comparison of Bids

- 28.1. The Procuring Entity will undertake the detailed evaluation and comparison of bids which have passed the opening and preliminary examination of bids, pursuant to **ITB** Clause 24, in order to determine the Lowest Calculated Bid.
- 28.2. The Lowest Calculated Bid shall be determined in two steps:
 - (a) The detailed evaluation of the financial component of the bids, to establish the correct calculated prices of the bids; and
 - (b) The ranking of the total bid prices as so calculated from the lowest to the highest. The bid with the lowest price shall be identified as the Lowest Calculated Bid.
- 28.3. The Procuring Entity's BAC shall immediately conduct a detailed evaluation of all bids rated "passed," using non-discretionary pass/fail criteria. The BAC shall consider the following in the evaluation of bids:
 - (a) <u>Completeness of the bid.</u> Unless the <u>BDS</u> allows partial bids, bids not addressing or providing all of the required items in the Schedule of Requirements including, where applicable, Schedule of Prices, shall be considered non-responsive and, thus, automatically disqualified. In this regard, where a required item is provided, but no price is indicated, the same shall be considered as non-responsive, but specifying a zero (0)

- or a dash (-) for the said item would mean that it is being offered for free to the Procuring Entity, except those required by law or regulations to be provided for; and
- (b) <u>Arithmetical corrections.</u> Consider computational errors and omissions to enable proper comparison of all eligible bids. It may also consider bid modifications. Any adjustment shall be calculated in monetary terms to determine the calculated prices.
- 28.4. Based on the detailed evaluation of bids, those that comply with the above-mentioned requirements shall be ranked in the ascending order of their total calculated bid prices, as evaluated and corrected for computational errors, discounts and other modifications, to identify the Lowest Calculated Bid. Total calculated bid prices, as evaluated and corrected for computational errors, discounts and other modifications, which exceed the ABC shall not be considered, unless otherwise indicated in the **BDS**.
- 28.5. The Procuring Entity's evaluation of bids shall be based on the bid price quoted in the Bid Form, which includes the Schedule of Prices.
- 28.6. Bids shall be evaluated on an equal footing to ensure fair competition. For this purpose, all bidders shall be required to include in their bids the cost of all taxes, such as, but not limited to, value added tax (VAT), income tax, local taxes, and other fiscal levies and duties which shall be itemized in the bid form and reflected in the detailed estimates. Such bids, including said taxes, shall be the basis for bid evaluation and comparison.
- 28.7. If so indicated pursuant to **ITB** Clause 1.2, Bids are being invited for individual lots or for any combination thereof, provided that all Bids and combinations of Bids shall be received by the same deadline and opened and evaluated simultaneously so as to determine the Bid or combination of Bids offering the lowest calculated cost to the Procuring Entity. Bid prices quoted shall correspond to all items specified for each lot and to all quantities specified for each item of a lot. Bid Security as required by **ITB** Clause 18 shall be submitted for each contract (lot) separately. The basis for evaluation of lots is specified in BDS Clause 28.3.

29. Post-Qualification

- 29.1. The BAC shall determine to its satisfaction whether the Bidder that is evaluated as having submitted the Lowest Calculated Bid complies with and is responsive to all the requirements and conditions specified in **ITB** Clauses 5, 12, and 13.
- 29.2. Within a non-extendible period of five (5) calendar days from receipt by the bidder of the notice from the BAC that it submitted the Lowest Calculated Bid, the Bidder shall submit its latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS) and other appropriate licenses and permits required by law and stated in the **BDS**.

Failure to submit any of the post-qualification requirements on time, or a finding against the veracity thereof, shall disqualify the bidder for award. Provided in the event that a finding against the veracity of any of the documents submitted is made, it shall cause the forfeiture of the bid security in accordance with Section 69 of the IRR of RA 9184.

- 29.3. The determination shall be based upon an examination of the documentary evidence of the Bidder's qualifications submitted pursuant to **ITB** Clauses 12 and 13, as well as other information as the Procuring Entity deems necessary and appropriate, using a non-discretionary "pass/fail" criterion, which shall be completed within a period of twelve (12) calendar days.
- 29.4. If the BAC determines that the Bidder with the Lowest Calculated Bid passes all the criteria for post-qualification, it shall declare the said bid as the LCRB, and recommend to the HoPE the award of contract to the said Bidder at its submitted price or its calculated bid price, whichever is lower.
- 29.5. A negative determination shall result in rejection of the Bidder's Bid, in which event the Procuring Entity shall proceed to the next Lowest Calculated Bid with a fresh period to make a similar determination of that Bidder's capabilities to perform satisfactorily. If the second Bidder, however, fails the post qualification, the procedure for post qualification shall be repeated for the Bidder with the next Lowest Calculated Bid, and so on until the LCRB is determined for recommendation for contract award.
- 29.6. Within a period not exceeding fifteen (15) calendar days from the determination by the BAC of the LCRB and the recommendation to award the contract, the HoPE or his duly authorized representative shall approve or disapprove the said recommendation.
- 29.7. In the event of disapproval, which shall be based on valid, reasonable, and justifiable grounds as provided for under Section 41 of the IRR of RA 9184, the HoPE shall notify the BAC and the Bidder in writing of such decision and the grounds for it. When applicable, the BAC shall conduct a post-qualification of the Bidder with the next Lowest Calculated Bid. A request for reconsideration may be filed by the bidder with the HoPE in accordance with Section 37.1.3 of the IRR of RA 9184.

30. Reservation Clause

30.1. Notwithstanding the eligibility or post-qualification of a Bidder, the Procuring Entity concerned reserves the right to review its qualifications at any stage of the procurement process if it has reasonable grounds to believe that a misrepresentation has been made by the said Bidder, or that there has been a change in the Bidder's capability to undertake the project from the time it submitted its eligibility requirements. Should such review uncover any misrepresentation made in the eligibility and bidding requirements, statements or documents, or any changes in the situation of the Bidder which will affect its capability to undertake the project so that it fails the preset eligibility or bid evaluation criteria, the Procuring Entity shall consider the said Bidder as

- ineligible and shall disqualify it from submitting a bid or from obtaining an award or contract.
- 30.2. Based on the following grounds, the Procuring Entity reserves the right to reject any and all bids, declare a Failure of Bidding at any time prior to the contract award, or not to award the contract, without thereby incurring any liability, and make no assurance that a contract shall be entered into as a result of the bidding:
 - (a) If there is *prima facie* evidence of collusion between appropriate public officers or employees of the Procuring Entity, or between the BAC and any of the Bidders, or if the collusion is between or among the bidders themselves, or between a Bidder and a third party, including any act which restricts, suppresses or nullifies or tends to restrict, suppress or nullify competition;
 - (b) If the Procuring Entity's BAC is found to have failed in following the prescribed bidding procedures; or
 - (c) For any justifiable and reasonable ground where the award of the contract will not redound to the benefit of the GOP as follows:
 - (i) If the physical and economic conditions have significantly changed so as to render the project no longer economically, financially or technically feasible as determined by the HoPE;
 - (ii) If the project is no longer necessary as determined by the HoPE; and
 - (iii) If the source of funds for the project has been withheld or reduced through no fault of the Procuring Entity.
- 30.3. In addition, the Procuring Entity may likewise declare a failure of bidding when:
 - (a) No bids are received;
 - (b) All prospective Bidders are declared ineligible;
 - (c) All bids fail to comply with all the bid requirements or fail post-qualification; or
 - (d) The bidder with the LCRB refuses, without justifiable cause to accept the award of contract, and no award is made in accordance with Section 40 of the IRR of RA 9184.

F. Award of Contract

31. Contract Award

- 31.1. Subject to **ITB** Clause 29, the HoPE or its duly authorized representative shall award the contract to the Bidder whose bid has been determined to be the LCRB.
- 31.2. Prior to the expiration of the period of bid validity, the Procuring Entity shall notify the successful Bidder in writing that its bid has been accepted, through a Notice of Award duly received by the Bidder or its representative personally or sent by registered mail or electronically, receipt of which must be confirmed in writing within two (2) days by the Bidder with the LCRB and submitted personally or sent by registered mail or electronically to the Procuring Entity.
- 31.3. Notwithstanding the issuance of the Notice of Award, award of contract shall be subject to the following conditions:
 - (a) Submission of the following documents within ten (10) calendar days from receipt of the Notice of Award:
 - (i) Valid JVA, if applicable; or
 - (ii) In the case of procurement by a Philippine Foreign Service Office or Post, the PhilGEPS Registration Number of the winning foreign Bidder;
 - (b) Posting of the performance security in accordance with **ITB** Clause 33;
 - (c) Signing of the contract as provided in **ITB** Clause 32; and
 - (d) Approval by higher authority, if required, as provided in Section 37.3 of the IRR of RA 9184.
- 31.4. At the time of contract award, the Procuring Entity shall not increase or decrease the quantity of goods originally specified in Section VI. Schedule of Requirements.

32. Signing of the Contract

- 32.1. At the same time as the Procuring Entity notifies the successful Bidder that its bid has been accepted, the Procuring Entity shall send the Contract Form to the Bidder, which contract has been provided in the Bidding Documents, incorporating therein all agreements between the parties.
- 32.2. Within ten (10) calendar days from receipt of the Notice of Award, the successful Bidder shall post the required performance security, sign and date the contract and return it to the Procuring Entity.
- 32.3. The Procuring Entity shall enter into contract with the successful Bidder within the same ten (10) calendar day period provided that all the documentary requirements are complied with.
- 32.4. The following documents shall form part of the contract:

- (a) Contract Agreement;
- (b) Bidding Documents;
- (c) Winning bidder's bid, including the Technical and Financial Proposals, and all other documents/statements submitted (*e.g.*, bidder's response to request for clarifications on the bid), including corrections to the bid, if any, resulting from the Procuring Entity's bid evaluation;
- (d) Performance Security;
- (e) Notice of Award of Contract; and
- (f) Other contract documents that may be required by existing laws and/or specified in the **BDS**.

33. Performance Security

- 33.1. To guarantee the faithful performance by the winning Bidder of its obligations under the contract, it shall post a performance security within a maximum period of ten (10) calendar days from the receipt of the Notice of Award from the Procuring Entity and in no case later than the signing of the contract.
- 33.2. The Performance Security shall be denominated in Philippine Pesos and posted in favor of the Procuring Entity in an amount not less than the percentage of the total contract price in accordance with the following schedule:

	Amount of Performance Security
Form of Performance Security	(Not less than the Percentage of the
	Total Contract Price)
(a) Cash or cashier's/manager's check issued by a Universal or Commercial Bank.	
For biddings conducted by the LGUs, the Cashier's/Manager's Check may be issued by other banks certified by the BSP as authorized to issue such financial instrument.	Five percent (5%)
(b) Bank draft/guarantee or irrevocable letter of credit issued by a Universal or Commercial Bank: Provided, however, that it shall be confirmed or authenticated by a Universal or Commercial Bank, if issued by a foreign bank.	

For biddings conducted by the LGUs, the Bank Draft/Guarantee or Irrevocable Letter of Credit may be issued by other banks certified by the BSP as authorized to issue such financial instrument.	
(c) Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security.	Thirty percent (30%)

33.3. Failure of the successful Bidder to comply with the above-mentioned requirement shall constitute sufficient ground for the annulment of the award and forfeiture of the bid security, in which event the Procuring Entity shall have a fresh period to initiate and complete the post qualification of the second Lowest Calculated Bid. The procedure shall be repeated until the LCRB is identified and selected for recommendation of contract award. However if no Bidder passed post-qualification, the BAC shall declare the bidding a failure and conduct a re-bidding with re-advertisement, if necessary.

34. Notice to Proceed

Within seven (7) calendar days from the date of approval of the contract by the appropriate government approving authority, the Procuring Entity shall issue the Notice to Proceed (NTP) together with a copy or copies of the approved contract to the successful Bidder. All notices called for by the terms of the contract shall be effective only at the time of receipt thereof by the successful Bidder.

35. Protest Mechanism

Decisions of the procuring entity at any stage of the procurement process may be questioned in accordance with Section 55 of the IRR of RA 9184.

Section III. Bid Data Sheet

Notes on the Bid Data Sheet

Section III is intended to assist the Procuring Entity in providing the specific information in relation to corresponding clauses in the ITB included in Section II, and has to be prepared for each specific procurement.

The Procuring Entity should specify in the BDS information and requirements specific to the circumstances of the Procuring Entity, the processing of the procurement, the applicable rules regarding bid price and currency, and the bid evaluation criteria that will apply to the bids. In preparing Section III, the following aspects should be checked:

- (a) Information that specifies and complements provisions of Section II must be incorporated.
- (b) Amendments and/or supplements, if any, to provisions of Section II as necessitated by the circumstances of the specific procurement, must also be incorporated.

For foreign-assisted projects, the Bid Data Sheet to be used is provided in Section IX-Foreign-Assisted Projects.

Bid Data Sheet

ITB Clause	
1.1	The Procuring Entity is Mindoro State College of Agriculture and Technology
	The name of the Contract is Supply and Delivery of Science, Technology, Fishery, Agriculture and Engineering Equipment for the Three Campuses of MinSCAT.
	The identification number of the Contract is <i>Contract No. PB-2017-12</i> .
1.2	The $lot(s)$ and reference is/are:
	Supply and Delivery of Science, Technology, Fishery, Agriculture and Engineering Equipment for the Three Campuses of MinSCAT.
2	The Funding Source is:
	The Government of the Philippines (GOP) through Corporate Budget for the contract approved by the governing Boards in the amount of Six Million Pesos (Php 6,000,000.00).
	The name of the Project is: Supply and Delivery of Science, Technology, Fishery, Agriculture and Engineering Equipment for the Three Campuses of MinSCAT.
3.1	No further instructions.
5.1	No further instructions.
5.2	None of the circumstances mentioned in the ITB Clause exists in this Project. Foreign bidders, except those falling under ITB Clause 5.2(b), may not participate in this Project.
5.4	No further instructions
7	No further instructions.
8.1	Subcontracting is not allowed.
8.2	Not applicable.
9.1	The Procuring Entity will hold a pre-bid conference for this Project on August 4, 2017 at 10:00 am at the Conference Room of MinSCAT – Main Campus, Alcate, Victoria, Oriental Mindoro
10.1	The Procuring Entity's address is:
	Alcate, Victoria, Oriental Mindoro

	Contact Person: VICENTE G. HERNANDEZ Office of the Bids and Awards Committee Administration Building, MinSCAT – Main Campus Alcate, Victoria, Oriental Mindoro CP Nos. 0977 825 4395; 0939 907 5108 Email address:
10.1()	vghernandez_7@yahoo.com.ph/vicente.hernandez_765@gmail.
12.1(a)	No further instructions.
12.1(a)(ii)	The statement of all ongoing and completed government and private contracts shall include all such contracts within <i>six months</i> prior to the deadline for the submission and receipt of bids.
13.1	No additional requirements.
13.1(b)	No further instructions.
13.1(c)	No additional requirements.
13.2	The ABC is <i>Six Million Pesos (Php 6,000,000.00)</i> . Any bid with a financial component exceeding this amount shall not be accepted.
15.4(a)(iv)	No incidental services are required.
15.4(b)	Not applicable
	No incidental services are required.
16.1(b)	The Bid prices for Goods supplied from outside of the Philippines shall be quoted in Philippine Pesos.
16.3	Not applicable
17.1	Bids will be valid until <i>August 18, 2017</i> .
18.1	The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts:
	1. The amount of not less than P120,000.00 , if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or
	2. The amount of not less than P300,000.00 if bid security is in Surety Bond.
18.2	The bid security shall be valid until 120 calendar days.
20.3	Each Bidder shall submit <i>one</i> original and <i>two</i> copies of the first and second components of its bid.

21	The address for submission of bids is Mindoro State College of Agriculture and Technology – Main Campus, Alcate, Victoria, Or. Mindoro.
	The deadline for submission of bids is <i>August 18, 2017, 2:00 p. m.</i>
24.1	The place of bid opening is Conference Room, Second Floor, Administration Building, Mindoro State College of Agriculture and Technology – Main Campus, Alcate, Victoria, Or. Mindoro.
	The date and time of bid opening is August 18, 2017, 2:00 p. m.
24.2	No further instructions.
24.3	No further instructions.
27.1	No further instructions.
28.3 (a)	Grouping and Evaluation of Lots –
	All items to be grouped together to form one complete Lot that will be awarded to one Bidder to form one complete contract.
	The goods are grouped in a single lot and the lot shall not be divided into sub-lots for the purpose of bidding, evaluation, and contract award.
28.3 (b)	Bid modification is not allowed.
28.4	Bidders have option to submit manually filed tax returns or tax returns filed through the Electronic Filing and Payments System (EFPS).
	NOTE: The latest income and business tax returns are those within the last six months preceding the date of bid submission.
29.2	List licenses and permits relevant to the Project and the corresponding law requiring it.
32.4(f)	List additional contract documents relevant to the Project that may be required by existing laws and/or the Procuring Entity.

Section IV. General Conditions of Contract

Notes on the General Conditions of Contract

The GCC in Section IV, read in conjunction with the SCC in Section V and other documents listed therein, should be a complete document expressing all the rights and obligations of the parties.

The GCC herein shall not be altered. Any changes and complementary information, which may be needed, shall be introduced only through the SCC in Section V.

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1. Definitions

- 1.1. In this Contract, the following terms shall be interpreted as indicated:
 - (a) "The Contract" means the agreement entered into between the Procuring Entity and the Supplier, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
 - (b) "The Contract Price" means the price payable to the Supplier under the Contract for the full and proper performance of its contractual obligations.
 - (c) "The Goods" means all of the supplies, equipment, machinery, spare parts, other materials and/or general support services which the Supplier is required to provide to the Procuring Entity under the Contract.
 - (d) "The Services" means those services ancillary to the supply of the Goods, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training, and other such obligations of the Supplier covered under the Contract.
 - (e) "GCC" means the General Conditions of Contract contained in this Section.
 - (f) "SCC" means the Special Conditions of Contract.
 - (g) "The Procuring Entity" means the organization purchasing the Goods, as named in the **SCC**.
 - (h) "The Procuring Entity's country" is the Philippines.
 - (i) "The Supplier" means the individual contractor, manufacturer distributor, or firm supplying/manufacturing the Goods and Services under this Contract and named in the **SCC**.
 - (j) The "Funding Source" means the organization named in the SCC.
 - (k) "The Project Site," where applicable, means the place or places named in the **SCC**.
 - (1) "Day" means calendar day.
 - (m) The "Effective Date" of the contract will be the date of signing the contract, however the Supplier shall commence performance of its obligations only upon receipt of the Notice to Proceed and copy of the approved contract.

(n) "Verified Report" refers to the report submitted by the Implementing Unit to the HoPE setting forth its findings as to the existence of grounds or causes for termination and explicitly stating its recommendation for the issuance of a Notice to Terminate.

2. Corrupt, Fraudulent, Collusive, and Coercive Practices

- 2.1. Unless otherwise provided in the <u>SCC</u>, the Procuring Entity as well as the bidders, contractors, or suppliers shall observe the highest standard of ethics during the procurement and execution of this Contract. In pursuance of this policy, the Procuring Entity:
 - (a) defines, for the purposes of this provision, the terms set forth below as follows:
 - (i) "corrupt practice" means behavior on the part of officials in the public or private sectors by which they improperly and unlawfully enrich themselves, others, or induce others to do so, by misusing the position in which they are placed, and it includes the offering, giving, receiving, or soliciting of anything of value to influence the action of any such official in the procurement process or in contract execution; entering, on behalf of the Government, into any contract or transaction manifestly and grossly disadvantageous to the same, whether or not the public officer profited or will profit thereby, and similar acts as provided in Republic Act 3019.
 - (ii) "fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Procuring Entity, and includes collusive practices among Bidders (prior to or after bid submission) designed to establish bid prices at artificial, non-competitive levels and to deprive the Procuring Entity of the benefits of free and open competition.
 - (iii) "collusive practices" means a scheme or arrangement between two or more Bidders, with or without the knowledge of the Procuring Entity, designed to establish bid prices at artificial, non-competitive levels.
 - (iv) "coercive practices" means harming or threatening to harm, directly or indirectly, persons, or their property to influence their participation in a procurement process, or affect the execution of a contract;
 - (v) "obstructive practice" is
 - (aa) deliberately destroying, falsifying, altering or concealing of evidence material to an administrative proceedings or investigation or making false statements to investigators in order to materially impede an

administrative proceedings or investigation of the Procuring Entity or any foreign government/foreign or international financing institution into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the administrative proceedings or investigation or from pursuing such proceedings or investigation; or

- (bb) acts intended to materially impede the exercise of the inspection and audit rights of the Procuring Entity or any foreign government/foreign or international financing institution herein.
- (b) will reject a proposal for award if it determines that the Bidder recommended for award has engaged in any of the practices mentioned in this Clause for purposes of competing for the contract.
- 2.2. Further the Funding Source, Borrower or Procuring Entity, as appropriate, will seek to impose the maximum civil, administrative and/or criminal penalties available under the applicable law on individuals and organizations deemed to be involved with any of the practices mentioned in GCC Clause 2.1(a).

3. Inspection and Audit by the Funding Source

The Supplier shall permit the Funding Source to inspect the Supplier's accounts and records relating to the performance of the Supplier and to have them audited by auditors appointed by the Funding Source, if so required by the Funding Source.

4. Governing Law and Language

- 4.1. This Contract shall be interpreted in accordance with the laws of the Republic of the Philippines.
- 4.2. This Contract has been executed in the English language, which shall be the binding and controlling language for all matters relating to the meaning or interpretation of this Contract. All correspondence and other documents pertaining to this Contract exchanged by the parties shall be written in English.

5. Notices

5.1. Any notice, request, or consent required or permitted to be given or made pursuant to this Contract shall be in writing. Any such notice, request, or consent shall be deemed to have been given or made when received by the concerned party, either in person or through an authorized representative of the Party to whom the communication is addressed, or when sent by registered mail, telex, telegram, or facsimile to such Party at the address specified in the

- <u>SCC</u>, which shall be effective when delivered and duly received or on the notice's effective date, whichever is later.
- 5.2. A Party may change its address for notice hereunder by giving the other Party notice of such change pursuant to the provisions listed in the **SCC** for **GCC** Clause 5.1.

6. Scope of Contract

- 6.1. The Goods and Related Services to be provided shall be as specified in Section VI. Schedule of Requirements.
- 6.2. This Contract shall include all such items, although not specifically mentioned, that can be reasonably inferred as being required for its completion as if such items were expressly mentioned herein. Any additional requirements for the completion of this Contract shall be provided in the <u>SCC</u>.

7. Subcontracting

- 7.1. Subcontracting of any portion of the Goods, if allowed in the **BDS**, does not relieve the Supplier of any liability or obligation under this Contract. The Supplier will be responsible for the acts, defaults, and negligence of any subcontractor, its agents, servants or workmen as fully as if these were the Supplier's own acts, defaults, or negligence, or those of its agents, servants or workmen.
- 7.2. If subcontracting is allowed, the Supplier may identify its subcontractor during contract implementation. Subcontractors disclosed and identified during the bidding may be changed during the implementation of this Contract. In either case, subcontractors must submit the documentary requirements under **ITB** Clause 12 and comply with the eligibility criteria specified in the **BDS**. In the event that any subcontractor is found by the Procuring Entity to be ineligible, the subcontracting of such portion of the Goods shall be disallowed.

8. Procuring Entity's Responsibilities

- 8.1. Whenever the performance of the obligations in this Contract requires that the Supplier obtain permits, approvals, import, and other licenses from local public authorities, the Procuring Entity shall, if so needed by the Supplier, make its best effort to assist the Supplier in complying with such requirements in a timely and expeditious manner.
- 8.2. The Procuring Entity shall pay all costs involved in the performance of its responsibilities in accordance with **GCC** Clause 6.

9. Prices

9.1. For the given scope of work in this Contract as awarded, all bid prices are considered fixed prices, and therefore not subject to price escalation during contract implementation, except under extraordinary circumstances and upon

- prior approval of the GPPB in accordance with Section 61 of R.A. 9184 and its IRR or except as provided in this Clause.
- 9.2. Prices charged by the Supplier for Goods delivered and/or services performed under this Contract shall not vary from the prices quoted by the Supplier in its bid, with the exception of any change in price resulting from a Change Order issued in accordance with **GCC** Clause 29.

10. Payment

- 10.1. Payments shall be made only upon a certification by the HoPE to the effect that the Goods have been rendered or delivered in accordance with the terms of this Contract and have been duly inspected and accepted. Except with the prior approval of the President no payment shall be made for services not yet rendered or for supplies and materials not yet delivered under this Contract. Ten percent (10%) of the amount of each payment shall be retained by the Procuring Entity to cover the Supplier's warranty obligations under this Contract as described in GCC Clause 17.
- 10.2. The Supplier's request(s) for payment shall be made to the Procuring Entity in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and/or Services performed, and by documents submitted pursuant to the **SCC** provision for **GCC** Clause 6.2, and upon fulfillment of other obligations stipulated in this Contract.
- 10.3. Pursuant to **GCC** Clause 10.2, payments shall be made promptly by the Procuring Entity, but in no case later than sixty (60) days after submission of an invoice or claim by the Supplier. Payments shall be in accordance with the schedule stated in the **SCC**.
- 10.4. Unless otherwise provided in the <u>SCC</u>, the currency in which payment is made to the Supplier under this Contract shall be in Philippine Pesos.
- 10.5. Unless otherwise provided in the <u>SCC</u>, payments using Letter of Credit (LC), in accordance with the Guidelines issued by the GPPB, is allowed. For this purpose, the amount of provisional sum is indicated in the <u>SCC</u>. All charges for the opening of the LC and/or incidental expenses thereto shall be for the account of the Supplier.

11. Advance Payment and Terms of Payment

- 11.1. Advance payment shall be made only after prior approval of the President, and shall not exceed fifteen percent (15%) of the Contract amount, unless otherwise directed by the President or in cases allowed under Annex "D" of RA 9184.
- 11.2. All progress payments shall first be charged against the advance payment until the latter has been fully exhausted.
- 11.3. For Goods supplied from abroad, unless otherwise indicated in the **SCC**, the terms of payment shall be as follows:

- (a) On Contract Signature: Fifteen Percent (15%) of the Contract Price shall be paid within sixty (60) days from signing of the Contract and upon submission of a claim and a bank guarantee for the equivalent amount valid until the Goods are delivered and in the form provided in Section VIII. Bidding Forms.
- (b) On Delivery: Sixty-five percent (65%) of the Contract Price shall be paid to the Supplier within sixty (60) days after the date of receipt of the Goods and upon submission of the documents (i) through (vi) specified in the SCC provision on Delivery and Documents.
- (c) On Acceptance: The remaining twenty percent (20%) of the Contract Price shall be paid to the Supplier within sixty (60) days after the date of submission of the acceptance and inspection certificate for the respective delivery issued by the Procuring Entity's authorized representative. In the event that no inspection or acceptance certificate is issued by the Procuring Entity's authorized representative within forty five (45) days of the date shown on the delivery receipt, the Supplier shall have the right to claim payment of the remaining twenty percent (20%) subject to the Procuring Entity's own verification of the reason(s) for the failure to issue documents (vii) and (viii) as described in the SCC provision on Delivery and Documents.

12. Taxes and Duties

The Supplier, whether local or foreign, shall be entirely responsible for all the necessary taxes, stamp duties, license fees, and other such levies imposed for the completion of this Contract.

13. Performance Security

- 13.1. Within ten (10) calendar days from receipt of the Notice of Award from the Procuring Entity but in no case later than the signing of the contract by both parties, the successful Bidder shall furnish the performance security in any the forms prescribed in the **ITB** Clause 33.2.
- 13.2. The performance security posted in favor of the Procuring Entity shall be forfeited in the event it is established that the winning bidder is in default in any of its obligations under the contract.
- 13.3. The performance security shall remain valid until issuance by the Procuring Entity of the Certificate of Final Acceptance.
- 13.4. The performance security may be released by the Procuring Entity and returned to the Supplier after the issuance of the Certificate of Final Acceptance subject to the following conditions:
 - (a) There are no pending claims against the Supplier or the surety company filed by the Procuring Entity;

- (b) The Supplier has no pending claims for labor and materials filed against it; and
- (c) Other terms specified in the **SCC**.
- 13.5. In case of a reduction of the contract value, the Procuring Entity shall allow a proportional reduction in the original performance security, provided that any such reduction is more than ten percent (10%) and that the aggregate of such reductions is not more than fifty percent (50%) of the original performance security.

14. Use of Contract Documents and Information

- 14.1. The Supplier shall not, except for purposes of performing the obligations in this Contract, without the Procuring Entity's prior written consent, disclose this Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the Procuring Entity. Any such disclosure shall be made in confidence and shall extend only as far as may be necessary for purposes of such performance.
- 14.2. Any document, other than this Contract itself, enumerated in **GCC** Clause 14.1 shall remain the property of the Procuring Entity and shall be returned (all copies) to the Procuring Entity on completion of the Supplier's performance under this Contract if so required by the Procuring Entity.

15. Standards

The Goods provided under this Contract shall conform to the standards mentioned in the Section VII. Technical Specifications; and, when no applicable standard is mentioned, to the authoritative standards appropriate to the Goods' country of origin. Such standards shall be the latest issued by the institution concerned.

16. Inspection and Tests

- 16.1. The Procuring Entity or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Contract specifications at no extra cost to the Procuring Entity. The <u>SCC</u> and Section VII. Technical Specifications shall specify what inspections and/or tests the Procuring Entity requires and where they are to be conducted. The Procuring Entity shall notify the Supplier in writing, in a timely manner, of the identity of any representatives retained for these purposes.
- 16.2. If applicable, the inspections and tests may be conducted on the premises of the Supplier or its subcontractor(s), at point of delivery, and/or at the goods' final destination. If conducted on the premises of the Supplier or its subcontractor(s), all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Procuring Entity. The Supplier shall provide the Procuring Entity with results of such inspections and tests.

- 16.3. The Procuring Entity or its designated representative shall be entitled to attend the tests and/or inspections referred to in this Clause provided that the Procuring Entity shall bear all of its own costs and expenses incurred in connection with such attendance including, but not limited to, all traveling and board and lodging expenses.
- 16.4. The Procuring Entity may reject any Goods or any part thereof that fail to pass any test and/or inspection or do not conform to the specifications. The Supplier shall either rectify or replace such rejected Goods or parts thereof or make alterations necessary to meet the specifications at no cost to the Procuring Entity, and shall repeat the test and/or inspection, at no cost to the Procuring Entity, upon giving a notice pursuant to GCC Clause 5.
- 16.5. The Supplier agrees that neither the execution of a test and/or inspection of the Goods or any part thereof, nor the attendance by the Procuring Entity or its representative, shall release the Supplier from any warranties or other obligations under this Contract.

17. Warranty

- 17.1. The Supplier warrants that the Goods supplied under the Contract are new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials, except when the technical specifications required by the Procuring Entity provides otherwise.
- 17.2. The Supplier further warrants that all Goods supplied under this Contract shall have no defect, arising from design, materials, or workmanship or from any act or omission of the Supplier that may develop under normal use of the supplied Goods in the conditions prevailing in the country of final destination.
- 17.3. In order to assure that manufacturing defects shall be corrected by the Supplier, a warranty shall be required from the Supplier for a minimum period specified in the <u>SCC</u>. The obligation for the warranty shall be covered by, at the Supplier's option, either retention money in an amount equivalent to at least one percent (1%) of every progress payment, or a special bank guarantee equivalent to at least one percent (1%) of the total Contract Price or other such amount if so specified in the <u>SCC</u>. The said amounts shall only be released after the lapse of the warranty period specified in the <u>SCC</u>; provided, however, that the Supplies delivered are free from patent and latent defects and all the conditions imposed under this Contract have been fully met.
- 17.4. The Procuring Entity shall promptly notify the Supplier in writing of any claims arising under this warranty. Upon receipt of such notice, the Supplier shall, within the period specified in the <u>SCC</u> and with all reasonable speed, repair or replace the defective Goods or parts thereof, without cost to the Procuring Entity.
- 17.5. If the Supplier, having been notified, fails to remedy the defect(s) within the period specified in **GCC** Clause 17.4, the Procuring Entity may proceed to take such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Procuring Entity

may have against the Supplier under the Contract and under the applicable law.

18. Delays in the Supplier's Performance

- 18.1. Delivery of the Goods and/or performance of Services shall be made by the Supplier in accordance with the time schedule prescribed by the Procuring Entity in Section VI. Schedule of Requirements.
- 18.2. If at any time during the performance of this Contract, the Supplier or its Subcontractor(s) should encounter conditions impeding timely delivery of the Goods and/or performance of Services, the Supplier shall promptly notify the Procuring Entity in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Supplier's notice, and upon causes provided for under GCC Clause 22, the Procuring Entity shall evaluate the situation and may extend the Supplier's time for performance, in which case the extension shall be ratified by the parties by amendment of Contract.
- 18.3. Except as provided under **GCC** Clause 22, a delay by the Supplier in the performance of its obligations shall render the Supplier liable to the imposition of liquidated damages pursuant to **GCC** Clause 19, unless an extension of time is agreed upon pursuant to **GCC** Clause 29 without the application of liquidated damages.

19. Liquidated Damages

Subject to GCC Clauses 18 and 22, if the Supplier fails to satisfactorily deliver any or all of the Goods and/or to perform the Services within the period(s) specified in this Contract inclusive of duly granted time extensions if any, the Procuring Entity shall, without prejudice to its other remedies under this Contract and under the applicable law, deduct from the Contract Price, as liquidated damages, the applicable rate of one tenth (1/10) of one (1) percent of the cost of the unperformed portion for every day of delay until actual delivery or performance. The maximum deduction shall be ten percent (10%) of the amount of contract. Once the maximum is reached, the Procuring Entity may rescind or terminate the Contract pursuant to GCC Clause 23, without prejudice to other courses of action and remedies open to it.

20. Settlement of Disputes

- 20.1. If any dispute or difference of any kind whatsoever shall arise between the Procuring Entity and the Supplier in connection with or arising out of this Contract, the parties shall make every effort to resolve amicably such dispute or difference by mutual consultation.
- 20.2. If after thirty (30) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the Procuring Entity or the Supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided, as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given.

- 20.3. Any dispute or difference in respect of which a notice of intention to commence arbitration has been given in accordance with this Clause shall be settled by arbitration. Arbitration may be commenced prior to or after delivery of the Goods under this Contract.
- 20.4. In the case of a dispute between the Procuring Entity and the Supplier, the dispute shall be resolved in accordance with Republic Act 9285 ("R.A. 9285"), otherwise known as the "Alternative Dispute Resolution Act of 2004."
- 20.5. Notwithstanding any reference to arbitration herein, the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree; and the Procuring Entity shall pay the Supplier any monies due the Supplier.

21. Liability of the Supplier

- 21.1. The Supplier's liability under this Contract shall be as provided by the laws of the Republic of the Philippines, subject to additional provisions, if any, set forth in the **SCC**.
- 21.2. Except in cases of criminal negligence or willful misconduct, and in the case of infringement of patent rights, if applicable, the aggregate liability of the Supplier to the Procuring Entity shall not exceed the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment.

22. Force Majeure

- 22.1. The Supplier shall not be liable for forfeiture of its performance security, liquidated damages, or termination for default if and to the extent that the Supplier's delay in performance or other failure to perform its obligations under the Contract is the result of a *force majeure*.
- 22.2. For purposes of this Contract the terms "force majeure" and "fortuitous event" may be used interchangeably. In this regard, a fortuitous event or force majeure shall be interpreted to mean an event which the Supplier could not have foreseen, or which though foreseen, was inevitable. It shall not include ordinary unfavorable weather conditions; and any other cause the effects of which could have been avoided with the exercise of reasonable diligence by the Supplier. Such events may include, but not limited to, acts of the Procuring Entity in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.
- 22.3. If a *force majeure* situation arises, the Supplier shall promptly notify the Procuring Entity in writing of such condition and the cause thereof. Unless otherwise directed by the Procuring Entity in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the *force majeure*.

23. Termination for Default

- 23.1. The Procuring Entity shall terminate this Contract for default when any of the following conditions attends its implementation:
 - (a) Outside of *force majeure*, the Supplier fails to deliver or perform any or all of the Goods within the period(s) specified in the contract, or within any extension thereof granted by the Procuring Entity pursuant to a request made by the Supplier prior to the delay, and such failure amounts to at least ten percent (10%) of the contact price;
 - (b) As a result of *force majeure*, the Supplier is unable to deliver or perform any or all of the Goods, amounting to at least ten percent (10%) of the contract price, for a period of not less than sixty (60) calendar days after receipt of the notice from the Procuring Entity stating that the circumstance of force majeure is deemed to have ceased; or
 - (c) The Supplier fails to perform any other obligation under the Contract.
- 23.2. In the event the Procuring Entity terminates this Contract in whole or in part, for any of the reasons provided under GCC Clauses 23 to 26, the Procuring Entity may procure, upon such terms and in such manner as it deems appropriate, Goods or Services similar to those undelivered, and the Supplier shall be liable to the Procuring Entity for any excess costs for such similar Goods or Services. However, the Supplier shall continue performance of this Contract to the extent not terminated.
- 23.3. In case the delay in the delivery of the Goods and/or performance of the Services exceeds a time duration equivalent to ten percent (10%) of the specified contract time plus any time extension duly granted to the Supplier, the Procuring Entity may terminate this Contract, forfeit the Supplier's performance security and award the same to a qualified Supplier.

24. Termination for Insolvency

The Procuring Entity shall terminate this Contract if the Supplier is declared bankrupt or insolvent as determined with finality by a court of competent jurisdiction. In this event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Procuring Entity and/or the Supplier.

25. Termination for Convenience

- 25.1. The Procuring Entity may terminate this Contract, in whole or in part, at any time for its convenience. The HoPE may terminate a contract for the convenience of the Government if he has determined the existence of conditions that make Project Implementation economically, financially or technically impractical and/or unnecessary, such as, but not limited to, fortuitous event(s) or changes in law and national government policies.
- 25.2. The Goods that have been delivered and/or performed or are ready for delivery or performance within thirty (30) calendar days after the Supplier's receipt of

Notice to Terminate shall be accepted by the Procuring Entity at the contract terms and prices. For Goods not yet performed and/or ready for delivery, the Procuring Entity may elect:

- (a) to have any portion delivered and/or performed and paid at the contract terms and prices; and/or
- (b) to cancel the remainder and pay to the Supplier an agreed amount for partially completed and/or performed goods and for materials and parts previously procured by the Supplier.
- 25.3. If the Supplier suffers loss in its initial performance of the terminated contract, such as purchase of raw materials for goods specially manufactured for the Procuring Entity which cannot be sold in open market, it shall be allowed to recover partially from this Contract, on a *quantum meruit* basis. Before recovery may be made, the fact of loss must be established under oath by the Supplier to the satisfaction of the Procuring Entity before recovery may be made.

26. Termination for Unlawful Acts

- 26.1. The Procuring Entity may terminate this Contract in case it is determined *prima facie* that the Supplier has engaged, before or during the implementation of this Contract, in unlawful deeds and behaviors relative to contract acquisition and implementation. Unlawful acts include, but are not limited to, the following:
 - (a) Corrupt, fraudulent, and coercive practices as defined in **ITB** Clause 3.1(a);
 - (b) Drawing up or using forged documents;
 - (c) Using adulterated materials, means or methods, or engaging in production contrary to rules of science or the trade; and
 - (d) Any other act analogous to the foregoing.

27. Procedures for Termination of Contracts

- 27.1. The following provisions shall govern the procedures for termination of this Contract:
 - (a) Upon receipt of a written report of acts or causes which may constitute ground(s) for termination as aforementioned, or upon its own initiative, the Implementing Unit shall, within a period of seven (7) calendar days, verify the existence of such ground(s) and cause the execution of a Verified Report, with all relevant evidence attached;
 - (b) Upon recommendation by the Implementing Unit, the HoPE shall terminate this Contract only by a written notice to the Supplier conveying the termination of this Contract. The notice shall state:

- (i) that this Contract is being terminated for any of the ground(s) afore-mentioned, and a statement of the acts that constitute the ground(s) constituting the same;
- (ii) the extent of termination, whether in whole or in part;
- (iii) an instruction to the Supplier to show cause as to why this Contract should not be terminated; and
- (iv) special instructions of the Procuring Entity, if any.
- (c) The Notice to Terminate shall be accompanied by a copy of the Verified Report;
- (d) Within a period of seven (7) calendar days from receipt of the Notice of Termination, the Supplier shall submit to the HoPE a verified position paper stating why this Contract should not be terminated. If the Supplier fails to show cause after the lapse of the seven (7) day period, either by inaction or by default, the HoPE shall issue an order terminating this Contract;
- (e) The Procuring Entity may, at any time before receipt of the Supplier's verified position paper described in item (d) above withdraw the Notice to Terminate if it is determined that certain items or works subject of the notice had been completed, delivered, or performed before the Supplier's receipt of the notice;
- (f) Within a non-extendible period of ten (10) calendar days from receipt of the verified position paper, the HoPE shall decide whether or not to terminate this Contract. It shall serve a written notice to the Supplier of its decision and, unless otherwise provided, this Contract is deemed terminated from receipt of the Supplier of the notice of decision. The termination shall only be based on the ground(s) stated in the Notice to Terminate;
- (g) The HoPE may create a Contract Termination Review Committee (CTRC) to assist him in the discharge of this function. All decisions recommended by the CTRC shall be subject to the approval of the HoPE; and
- (h) The Supplier must serve a written notice to the Procuring Entity of its intention to terminate the contract at least thirty (30) calendar days before its intended termination. The Contract is deemed terminated if it is not resumed in thirty (30) calendar days after the receipt of such notice by the Procuring Entity.

28. Assignment of Rights

The Supplier shall not assign his rights or obligations under this Contract, in whole or in part, except with the Procuring Entity's prior written consent.

29. Contract Amendment

Subject to applicable laws, no variation in or modification of the terms of this Contract shall be made except by written amendment signed by the parties.

30. Application

These General Conditions shall apply to the extent that they are not superseded by provisions of other parts of this Contract.

Section V. Special Conditions of Contract

Notes on the Special Conditions of Contract

Similar to the BDS, the clauses in this Section are intended to assist the Procuring Entity in providing contract-specific information in relation to corresponding clauses in the GCC.

The provisions of this Section complement the GCC, specifying contractual requirements linked to the special circumstances of the Procuring Entity, the Procuring Entity's country, the sector, and the Goods purchased. In preparing this Section, the following aspects should be checked:

- (a) Information that complements provisions of Section IV must be incorporated.
- (b) Amendments and/or supplements to provisions of Section IV, as necessitated by the circumstances of the specific purchase, must also be incorporated.

However, no special condition which defeats or negates the general intent and purpose of the provisions of Section IV should be incorporated herein.

For foreign-assisted projects, the Special Conditions of Contract to be used is provided in Section IX-Foreign-Assisted Projects.

Special Conditions of Contract

GCC Clause	
1.1(g)	The Procuring Entity is <i>Mindoro State College of Agriculture and Technology</i> .
1.1(i)	The Supplier is
1.1(j)	The Funding Source is
	the Government of the Philippines (GOP) through <i>General Appropriations Act</i> in the amount of <i>Six Million Pesos</i> (Php 6,000,000.00).
1.1(k)	The Project Site is Mindoro State College of Agriculture and Technology-Main Campus Alcate, Victoria, Oriental Mindoro.
2.1	No further instructions.
5.1	The Procuring Entity's address for Notices is: Dr. Jesse T. Zamora SUC President II MinSCAT – Main Campus Alcate, Victoria, Or. Mindoro
	The Supplier's address for Notices is:
6.2	Delivery and Documents –
	The delivery terms applicable to this Contract are delivered to <i>Mindoro State College of Agriculture and Technology-Main Campus Alcate, Victoria, Oriental Mindoro</i> . Risk and title will pass from the Supplier to the Procuring Entity upon receipt and final acceptance of the Goods at their final destination."
	Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in Section VI. Schedule of Requirements. The details of shipping and/or other documents to be furnished by the Supplier are as follows:
	For Goods supplied from within the Philippines:
	Upon delivery of the Goods to the Project Site, the Supplier shall notify the Procuring Entity and present the following documents to the Procuring Entity:
	(i) Original and four copies of the Supplier's invoice showing Goods' description, quantity, unit price, and total amount;
	(ii) Original and four copies delivery receipt/note, railway receipt,

or truck receipt;

- (iii) Original Supplier's factory inspection report;
- (iv) Original and four copies of the Manufacturer's and/or Supplier's warranty certificate;
- (v) Original and four copies of the certificate of origin (for imported Goods);
- (vi) Delivery receipt detailing number and description of items received signed by the authorized receiving personnel;
- (vii) Certificate of Acceptance/Inspection Report signed by the Procuring Entity's representative at the Project Site; and
- (viii) Four copies of the Invoice Receipt for Property signed by the Procuring Entity's representative at the Project Site.

For purposes of this Clause the Procuring Entity's Representative at the Project Site is

Prof. VICENTE G. HERNANDEZ

Office of the Bids and Awards Committee
Administration Building, MinSCAT – Main Campus
Alcate, Victoria, Oriental Mindoro
CP Nos. 0977 825 4395; 0939 907 5108
Email Address:
vghernandez 7@yahoo.com.ph/vicente.hernandez765@gmail.com

Incidental Services –

The Supplier is required to provide all of the following services, including additional services, if any, specified in Section VI. Schedule of Requirements:

Select appropriate requirements and delete the rest.

- (a) performance or supervision of on-site assembly and/or start-up of the supplied Goods;
- (b) furnishing of tools required for assembly and/or maintenance of the supplied Goods;
- (c) furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods;
- (d) performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and
- (e) training of the Procuring Entity's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods.

The Contract price for the Goods shall include the prices charged by the Supplier for incidental services and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.

Packaging -

The Supplier shall provide such packaging of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in this Contract. The packaging shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packaging case size and weights shall take into consideration, where appropriate, the remoteness of the GOODS' final destination and the absence of heavy handling facilities at all points in transit.

The packaging, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified below, and in any subsequent instructions ordered by the Procuring Entity.

The outer packaging must be clearly marked on at least four (4) sides as follows:

Name of the Procuring Entity

Name of the Supplier

Contract Description

Final Destination

Gross weight

Any special lifting instructions

Any special handling instructions

Any relevant HAZCHEM classifications

A packaging list identifying the contents and quantities of the package is to be placed on an accessible point of the outer packaging if practical. If not practical the packaging list is to be placed inside the outer packaging but outside the secondary packaging.

Insurance -

The Goods supplied under this Contract shall be fully insured by the Supplier in a freely convertible currency against loss or damage incidental to manufacture or acquisition, transportation, storage, and delivery. The Goods remain at the risk and title of the Supplier until their final acceptance by the Procuring Entity.

Transportation -Where the Supplier is required under Contract to deliver the Goods CIF, CIP or DDP, transport of the Goods to the port of destination or such other named place of destination in the Philippines, as shall be specified in this Contract, shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract Price. Where the Supplier is required under this Contract to transport the Goods to a specified place of destination within the Philippines, defined as the Project Site, transport to such place of destination in the Philippines, including insurance and storage, as shall be specified in this Contract, shall be arranged by the Supplier, and related costs shall be included in the Contract Price. Where the Supplier is required under Contract to deliver the Goods CIF, CIP or DDP, Goods are to be transported on carriers of Philippine registry. In the event that no carrier of Philippine registry is available, Goods may be shipped by a carrier which is not of Philippine registry provided that the Supplier obtains and presents to the Procuring Entity certification to this effect from the nearest Philippine consulate to the port of dispatch. In the event that carriers of Philippine registry are available but their schedule delays the Supplier in its performance of this Contract the period from when the Goods were first ready for shipment and the actual date of shipment the period of delay will be considered force majeure in accordance with **GCC** Clause 22. The Procuring Entity accepts no liability for the damage of Goods during transit other than those prescribed by INCOTERMS for DDP Deliveries. In the case of Goods supplied from within the Philippines or supplied by domestic Suppliers risk and title will not be deemed to have passed to the Procuring Entity until their receipt and final acceptance at the final destination. Patent Rights -The Supplier shall indemnify the Procuring Entity against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof. 10.4 Not applicable 10.5 Payment using LC is not allowed. 11.3 Maintain the GCC Clause. 13.4(c) No further instructions. 16.1 The inspections and tests that will be conducted are: Checking based on the required specifications.

17.3	One (1) year after acceptance by the Procuring Entity of the delivered Goods.
17.4	The period for correction of defects in the warranty period is fifteen(15) days
21.1	No additional provision.

Section VI. Schedule of Requirements

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date which is the date of delivery to the project site.

Item	Description	Quantity	Total	Delivered,
Number	1			Weeks/Months
1.	Trinocular Compound	3 unit		VV CCRS/ IVIOITERS
1.	Microscope with Camera	3 unit		
	Specifications:			
	> Total magnification: 40X-100X-			
	250X-400X-1000X-2500X			
	> Eyepieces: wide field WF10X and			
	WF25X			
	> Objective: achromatic DIN 4X,			
	10X, 40X(S), 100X(S, Oil)			
	> Viewing head: 45°Inclined			
	360°swiveling trinocular			
	> Sliding adjustable interpupillary			
	distance: 2-3/16" ~ 2-			
	15/16"(55mm ~ 75mm)			
	> Ocular diopter adjustable on both			
	eyetubes			
	> Nosepiece: revolving quadruple			
	> Stage: mechanical double layer			
	size: 4-1/2"x 4-15/16" (115mm x			
	125mm)			
	> Stage x-y stroke (travel range): 2-			
	13/16" x 1-3/16" (70mm x 30mm)			
	> Condenser & diaphragm: NA1.25			
	Abbe condenser with iris diaphragm			
	> Transmitted (lower) illuminator:			
	LED light, intensity adjustable > Focus adjustment: Coaxial coarse			
	& fine knobs on both sides			
	> All metal mechanical components			
	> Extensive slide preparation kit,			
	cleaning kit and the World of the			
	Microscope book included> 25-			
	piece prepared slides, 100-piece			
	blank glass slides with > 100-piece			
	cover slips and 100-sheet lens			
	cleaning paper included>Power			
	supply: AC/DC adapter, 100V-			
	240V (UL approved)Digital			
	camera:- True color 2592x1944			
	pixels (5MP)- Frame speed: 2fps at			
	2592x1944, 3fps at 2048x1536, 5fps			
	at 1600x1200, 7.5fps at			
	1280x1024> Software compatible			
	with Windows operating systems			
	and Mac OS > Offers capturing still			
	images, stitching, EDF, video			
	recording and measurement			
	functions> USB2.0 cable included>			

	1 = 1		ı	T
	Dimension: 9-1/16" x 7-1/8" x 14-			
	1/4" (23cm x 18cm x			
	36cm)>Package weight: 11 lbs (5			
	kg)			
	¹¹ 5)			
	Diagnotina Minner	0		
2.	Dissecting Microscope -	8 unit		
	Specifications:			
	Total magnification: 20X, 40X, 80X			
	Eyepieces: widefield WF10X/20			
	and WF20X			
	Rotational objectives: 2X, 4X			
	Head: 45°Inclined binocular with			
	locked-in eyepieces			
	Diopter adjustment on left ocular-			
	tube			
	Interpupillary distance: 2-3/16" ~ 2-			
	15/16"(55mm ~ 75mm)			
	Working distance: 2-1/4" (57mm)			
	Field of view: 10mm/5mm			
	LED cold illuminators: incident			
	(upper) and transmitted (lower)			
	Frosted glass stage plate: 3-3/4"			
	(95mm) in diameter			
	White/black plastic stage plate: 3-			
	3/4" (95mm) in diameter			
	Head vertical moving range (along			
	the pillar): 2-3/4" (70mm)			
	Focusing adjustment range: 1-5/8"			
	(42mm)			
	All metal mechanical components			
	Full optical glass elements			
	Power supply:			
	Power adapter: 120V AC			
	Battery: 3 AA batteries			
	Digital camera:			
	- True color 640x480 pixels			
	(0.3MP)			
	- Frame speed: 30fps at 640x480			
	- Software compatible with			
	Windows operating systems and			
	Mac OS			
	- Offers capturing still images,			
	stitching, EDF, video recording and			
	measurement functions			
	- USB2.0 cable included			
	Dimension: 8-1/4"x 4-3/4" x 14-			
	1/4" (21cm x 12cm x 36cm)			
	Shipping package: 6 lb (3 kg)			
3.	Water Testing Sensors & Modules	2 set		
	Consist of the ff: USB Module-			
	1unit, RF Communication Module -			
	2units, Battery Module -1unit,			
	Digital Display module -1 unit,			
	Graphic Display Module - 1 unit,			
	Oxygen Logger sensor -1 unit,			
	Temperature logger sensor -1 unit,			
	Conductivity logger sensor -1unit,			
	pH logger sensor -1 unit, Barometer			
	logger sensor - 1 unit, Case for			
			l .	I.

	Neulog sensor kit - 1pc			
4.	Underwater Quantum Meter Specifications: Calibration Uncertainty: ±5 % Measurement Repeatability: Less than 1 % Long-term Drift (Non-stability): Less than 2 % per year Non-linearity: Less than 1 % (up to 3000µmol m-2 s-1) Response Time: Less than 1 ms Field of View: 180° Spectral Range: 410 to 655 nm (wavelengths where response is greater than 50% of maximum) Directional (Cosine) Response: ±5 % at 75° zenith angle Temperature Response: 0.06 ± 0.06 % per C Operating Environment: 0 to 50 C; less than 90 % non-condensing relative humidity up to 30 C; less than 70 % non-condensing relativity humidity from 30 to 50 C; separate sensors can be submerged in water up to depth of 30 m Meter Dimensions: 126 mm length, 70 mm width, 24 mm height Sensor Dimensions: 24 mm diameter, 28 mm height Mass: 180 g Cable: 2 m of shielded, twisted-pair wire; additional cable available; santoprene rubber jacket	1 unit		
5.	Tinocular Stereo Microscope Specifications: Total magnification: 3.5X-90X Head: 45°inclined 360°rotatable trinocular Eyepieces: 30mm widefield WF10X/20 and WF20X Objective: zoom 0.7X-4.5X Zoom ratio: 6.5:1 Auxiliary objective lens: 0.5X Separate photo-tube focus adjustment Beam split lever enables photo-tube or left eye-tube Interpupillary distance: adjustment 2-3/16" ~ 2-15/16"(55mm ~ 75mm) Diopter: adjustable on both ocular- tubes ±5dp Working distance: 6-1/2" (165mm) with 0.5X auxiliary lens and 3-3/4" (95mm) without 0.5X auxiliary lens Field of view: max 2-3/8" (60mm)	1 unit		

			,		
	with 0.5X auxiliary lens and max 1-				
	1/8"(29mm) without 0.5X auxiliary				
	lens				
	Focus adjustment stroke: 2-3/8"				
	(60mm)				
	Incident (upper) illuminator:				
	12V/10W halogen with reflector,				
	90° adjustable inclined angle range				
	Transmitted (lower) illuminator:				
	12V/10W halogen				
	Each light has its own intensity				
	control				
	Main power on/off switch				
	Mounting size of auxiliary lens and				
	ring lights: 50mm female thread				
	Plastic shell 54 LED with 100V-				
	240V wide voltage range power				
	adapter				
	Glass stage plate: 3-3/4" (95mm) in				
	diameter				
	White/black plastic stage plate: 3-				
	3/4" (95mm) in diameter				
	Sturdy metal framework				
	Power supply: 100V~240V,				
	50/60Hz (US and Canada Plug)				
	Digital camera:				
	- true color 4096x3288 pixels (14M				
	pixels)				
	- 0.5X reduction lens to get larger				
	field of view				
	- 0.01 mm calibration slide:				
	1mm/100 division				
	- Frame speed: 1.8fps at 4096x3288,				
	10fps at 2048x1644, 27fps at				
	1024x822				
	- Software compatible with				
	Windows, Mac OS X and Linux				
	5				
	operating systems				
1	- Capturing microscope images,				
	recording live video, measuring				
1	lengths, angles, areas, editing				
	images				
	- USB 2.0 cable included				
	Dimension: 9 " x 6" x 17-1/2"				
	(23cm x 16cm x 44cm)				
	Shipping package: 20 lbs (9 kg)				
6.	Water Quality Meter Kit	3 unit			
	Specifications:				
	pH range: 0.00 to 14.00pH				
	ORP (mV) range: -999 to 999mV				
	Chlorine (ppm) range: 0.01 to				
	10.00ppm				
	Temperature range: 23° to 194°F (-5				
	to 90°C)				
	Max Resolution: 0.01pH, 1mV,				
	0.01ppm, 0.1°				
	Basic Accuracy: ±0.01pH, ±4mV,				
	$\pm 10\%$ of reading ± 0.01 ppm;				
	±1.8°F/±1°C				
	-1.0 1/±1 C		l .	l	

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	Memory: 15 readings Dimensions/ Weight: Meter: 1.4x6.8x1.6" (35.6x172.7x40.6mm)/ 3.85oz (110g)			
7.	Hotplate Magnetic Stirrer, with connection for Electronic Contact-thermometer, 3ltr., 230V	2 unit		
8.	Plankton Net Plankton Sampler 153µm, includes carry case. A popular and versatile net. The anterior reducing cone makes filtration more efficient than a standard conical net. Consists of an anterior reducing cone; a posterior conical filtering net; and Dolphin™ adapter with Wisconsin bucket. A stainless steel net ring holds it open where the reducing cone and filter net meet. Bridle and bucket are stainless steel. Specifications: • Mouth diameter: 130 mm (5") • Ring diameter: 180 mm (7") • Includes matched Wisconsin bucket and adapter • Nets and Nitex® bucket strips available in 4 sizes.	2 unit		
9.	Water Sampler, made of non- metallic materials like fiberglass, or PVC. Capacity is at least 1.5L. Supplied with 14m line.	2 unit		
10.	Refractometer Specifications: type: Salt (ATC) ranges: 0 to 100ppt (10 to 30°C) 1.000 to 1.070 Specific Gravity resolution: 1ppt 0.001 accuracy: ±0.1% ±0.001	4 unit		
11.	Digital Analytical Balance Specifications: Capacity: 200g Resolution: 0.001g Scale pan size: Ø90mm Power: 12V/6V/1.2AH With automatic external calibration weights, easy to operate, standard weights. Anti-overload protection and automatic fault tips High-contrast, large LCD display, display backlit A variety of unit conversion, easy to operate AC-DC dual use, long standby time	1 unit		

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	Water Quality Starter Kit It measures six parameters common	1 unit		
	in water quality testing: alkalinity,			
	chloride, hardness, iron, pH, and			
	sulfite. This kit is equipped with all			
	the necessary reagents and			
	equipment to perform over 100 tests			
	for each parameter, with the			
	exception of iron, which includes			
	reagents for 50 tests. With Portable			
	Craphic Data Logger w/	1		
	Graphic Data Logger w/ advanced Water Quality Sensor	1 unit		
	Consist of the ff:			
	USB module – 1 , RF			
	Communication module – 2			
	Battery module – 1, Digital display			
	module -1, Graphic Display			
	Module – 1, Oxygen logger sensor			
	- 1, Temperature logger sensor - 1,			
	Conductivity logger sensor – 1, pH			
	logger sensor – 1, Barometer logger			
	sensor – 1, Case for NeuLog sensor			
	kit – 1			
14.	Dektop Computer	15 unit		
	CPU: AMD A8-7600K 3.1/3.8Ghz			
	6-Core FM2+ Kaveri			
	Motherboard: MSI or Emaxx			
	RAM: Kingston DDR4 8GB			
	HDD: Seagate SATA 1TB			
	Monitor: 19" ACER/AOC LED			
	Keyboard: A4Tech PS/2			
	Mouse: A4Tech PS/2 Optical			
	Case: ATX AVR			
1.5	A: 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 ':		
	2-in 1 Ink Tank System Printer	6 unit		
	WEIGHT 3.7 kg (3700g)			
	DIMENSION (CM) (L X W X H)			
	55 x 29 x 19 cm			
	PRINTER RESOLUTIONS Up to			
	1200 × 6000 dpi			
	CAPACITY 64 MB Compound Microscope	0:+		
	Specifications:	8 unit		
	Total magnifications: 300X, 600X,			
	and 1200X			
	Body Type: durable metal arm			
	Illumination: built-in LED light and			
	reflecting mirror			
	Eyepiece: holder type single			
	Stage: 70 x 65mm			
	Slide holder: dual spring clips			
	Accessory set: 1 shrimp hatchery, 1			
	specimen slicer, 5 prepared slides, 7			
	blank slides, 1 petri dish, 7 slide			
	cover, 1 plastic tweezer, 1 graduated			
	cover, 1 plastic tweezer, 1 graduated cylinder, 1 spare bulb, 7 statical slide covers, 7 slide labels, 1 plastic			

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	scalpel, 1 plastic spatula, 1 needle, 1			
	plastic stirring rod, 1 eosin, 1 gum			
	media in a bottle, 1 sea salt, 1 brine			
	shrimp eggs, 2 collecting vials, 2			
	AA batteries			
	Shipping weight: 5 lbs (2.5 kg)			
17.	Binocular Microscope	3 unit		
	Specifications:			
	Total magnification: 40X-64X-			
	100X-160X-400X-640X-1000X-			
	1600X			
	Eyepieces: widefield WF10X and			
	P16X			
	Objectives: achromatic DIN 4X,			
	10X, 40X(S), 100X(S, Oil)			
	Viewing head: 45°Inclined			
	360°swiveling binocular			
	Interpupillary distance: sliding			
	adjustable 2-3/16" ~ 2-			
	15/16"(55~75mm)			
	Diopter: adjustable on both ocular			
	eyetubes			
	Nosepiece: revolving quadruple			
	Stage: double layer X-Y mechanical			
	stage with scales, size: 4-1/2"x 4-			
	15/16" (115mm x 125mm),			
	translation range: 2-13/16" x 1-			
	3/16" (70mm x 30mm)			
	Stage upward moving lock protects			
	objectives and slides			
	Condenser: NA1.25 Abbe			
	condenser with iris diaphragm			
	Illumination: transmitted (lower)			
	LED light, intensity adjustable			
	Focus: Coaxial coarse & fine knobs			
	on both sides			
	Full solid metal frame construction			
	with stain resistant enamel finish			
	Power supply: AC/DC adapter,			
	100V-240V (UL approved)			
	Dimension: 9-1/16" x 7-1/8" x 13"			
	(23cm x 18cm x 33cm)			
	Net weight: 7 lb 2 oz (3.25 kg)			
	Package weight: 9 lb (4 kg)			
18.	Human Anatomy Model	1 unit		
	85 cm, a unisex torso including 40	_		
	parts: torso, female breast plate,			
	head, eyeball, brain (8 parts),			
	vertebra spinal nerves (4 parts), lung			
	(4 parts), heart (2 parts), trachea,			
	esophagus and descending aorta,			
	diaphragm, liver, kidney, stomach			
	(2 parts), intestines (4 parts), male			
	genitalia (4 parts), female genitalia			
	with fetus (3 parts)			
19.	Human Torso Model (male &	1		
19.	· · · · · · · · · · · · · · · · · · ·	1 unit		
	female)			
	Between the trunk model is divided			
I	into 20: torso, head, eye, brain, lung			
	(2), (2) the heart, liver, gallbladder,			

	,		
	kidney, stomach (2 pieces),		
	intestinal (2 pieces), the male		
	reproductive organs (2), (2) the		
	female reproductive organs and		
	spinal cord. Size: 55 cm.		
	Packing: 6 PCS/box, 63 * 47 * 51		
	cm, 21 KGS		
	cm, 21 KGS		
20	El-4l	1+	
20.	Electrolysis Apparatus	4 set	
	Comprises a pair of Carbon		
	electrodes, tapered at one end		
	mounted at the base of clear		
	transparent container through holed		
	rubber stoppers, which are insulated		
	from each other to prevent		
	accidental short circuiting. The		
	container has a pair of 4mm color		
	coded sockets near the bottom for		
	connections. Includes two graduated		
	test tubes, 10ml each, held firmly in		
	spring clips.		
21.	Spectroscope	3 unit	
	To observe several spectra:		
	continuous spectrum, emission		
	spectrum, absorption spectrum and		
	solar spectrum.		
22.	Rotary Evaporator	1 unit	
	Specifications:		
	Rotation speed: 20-260rpm		
	Rotation Speed Display: LCD		
	Titled Angel: 0-60°		
	Motor Power: 40W		
	Stroke Displacement: 150mm		
	Lifting: Manual		
	Temp. Range: Ambient - 180°		
	Bath Material: 304 SSL		
	Temp. Controller Display: LCD		
	Temp. Controller Mode: P.I.D.		
	Temp. Control Accuracy:		
	± 1 °C(Water), ± 2 °C (Oil)		
	Heating Power: 1300W		
	Bath Capacity: 5L		
	Bath Diameter: 250mm		
	Evaporation Volume: 50-3000mL		
	Condenser Type: Vertical		
	Cooling Surface cm2: 1200		
	Protection class: IP20		
	Ambient Temperature: 0°C to 4°C		
	Dimensions (L×W×H) Inch:		
	15×14×28		
	Weight (Lbs): 51		
22	Voltage: 110V,60Hz/ 230V, 50Hz	2	
23.	Basic Hemocytometer	2 unit	
1	consists of a thick glass microscope		
	slide with a rectangular indentation		
2.4	that creates a chamber	4 - **	
24.	Optic Bench Used in optical	4 unit	
	experiments to support various		

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	optical components, the study of the			
	law of lens imaging, focus			
	measurement, with a microscope,			
	telescope, etc., for the students to			
	use. Can also be done in light of			
	interference, diffraction,			
	polarization and other projection			
	demonstration. The light fixture seat			
	is composed of a guide rail			
	(including a support, a guide rail			
	length 1000mm), a sliding block, a			
	scale and an accessory.			
25.	Dynamic Trolley	1 set		
	consists of a rectangular body			
	carried upon three low-friction			
	wheels and is supplied with one			
	strong spring plunger and three			
	dowel pegs.			
26.	Basic Optic System	5 set		
20.	Accessories for the Optic Bench	3 300		
	include: biconvex lens 2 blocks,			
	convex lens			
	1 block, biconcave lens 1 block, "1"			
	word screen 1 block, 1 piece of			
	white screen, five bar, frosted glass			
	screen (screen) 1 block, light source			
	1 set,a Candlestick, guide rail and			
	the datum plane of the parallelism			
27	error is not greater than 1.00			
27.	Boyle's Law Apparatus	6 set		
	The apparatus comprises a thick			
	walled,wide-bore glass tube			
	mounted vertically in front of a			
	scale graduated, with closed end of			
	the tube at the top and open bottom			
	end secured tightly on the thick-			
	walled metal tube with O-ring to get			
	leak-proof joint.Other end of metal			
	tube connected to a cylindrical oil			
	chamber filled with colored oil and			
	capable of withstanding high			
	pressures.			
28.	Forensic Optical Comparator	1 set		
	Technical parameter as follows:			
	Dual screen projections			
	No image overlap			
	Dual 300-watt quartz projection			
	lamps			
	Dual or simultaneous operation			
1	Adjustable focusing platforms			
	Matched f / 3. 5 objective lenses			
	Dual power magnification (6. 5x			
	and 10x)			
	Sliding turret with pre-focused			
	illumination			
1	Four-inch internal cooling fan			
1	Thermal cutoff of fan below 100			
	degree f			
1	Aluminum / steel construction			
L			1	l .

Hardwood formica-covered base Easy access relamping doors Viewing screen 6 1 / 2" x 15" Sliding ambient light shield Overall dimensions: 20 1 / 2" x 18" x20 1 / 2" 29. Training & Experimentation 1 set	
Viewing screen 6 1 / 2" x 15" Sliding ambient light shield Overall dimensions: 20 1 / 2" x 18" x20 1 / 2"	
Sliding ambient light shield Overall dimensions: 20 1 / 2" x 18" x20 1 / 2"	
Overall dimensions: 20 1 / 2" x 18" x20 1 / 2"	
x20 1 / 2"	
20 Training & Experimentation 1 cot	
20 Training & Experimentation 1 cot	
System for Students (TESS)	
Advance Physics Basic Set Mechanics 1 & accessories	
Consist of the ff:	
Measuring tape, 1 = 2 m 1	
TESS box, plastics, high, 305 x 425	
x 150 mm 1	
Lid for TESS box, plastic 1 Digital stop watch, 24 h, 1/100 s &	
1 s 1	
Beaker, 100 ml, low form, plastic	
Beaker, 250 ml, low form, plastic	
Craduated evilinder 50ml plactic	
Graduated cylinder, 50ml, plastic	
Set of precision weights, 1g-50g	
1	
Pipette with rubber bulb 1	
Support base variable 1	
Support rod, stainless steel, 1 = 250	
mm, d = 10 mm 1	
Support rod with hole, stainless steel, 10 cm 2	
Boss head 2	
Fishing line, 1. 20m 1	
Weight holder for slotted weights	
Slotted weight, 10 g, black 4 Slotted weight, 50 g, black 3	
Slotted weight, 50 g, black 3 Helical spring, 3 N/m 1	
Helical spring, 20 N/m 1	
Pulley, movable, dia.65mm, w.	
hook 1	
Rod for pulley 1 Pulleys, double in line 2	
Vernier calliper, plastic 1	
Spring balance, transparent, 1 N	
Spring balance, transparent, 2 N	
Spring balance holder 2	
Aluminium column 1	
Steel Column nickel-plated 1	
Holding pin 1	
Balance pan, plastic 2	
Lever 1 Pointer for lever 1	
Plate with scale 1	
Pulley, movable, dia.40mm, w.	
hook 1	

				_
	Steel pellets, $d = 2 \text{ mm}$, 120 g 1			
	Wood column 1			
	Glass tube holder with tape measure			
	-			
	clamp 1			
	TESS advanced Mechanics ME 1			
	consumables for 10 Groups 1			
	TESS advanced Physics manual			
	Mechanics 1 to 5 1			
	Software interTESS Physics,			
	Mechanics, DVD 1			
30.	TESS Advance Physics Set Heat 1	1 set		
	& accessories			
	Consist of the ff:			
	Measuring tape, $1 = 2 \text{ m}$ 1			
	TESS box, plastics, high, 305 x 425			
	x 150 mm 1			
	Lid for TESS box, plastic 1			1
	Digital stop watch, 24 h, 1/100 s &			1
	1 s 1			1
	Wire gauze 160 mm x 160 mm,			
	ceramic cen. 1			1
	Beaker, 100 ml, low form, plastic			
	1			
	Erlenmeyer flask, wide neck, 250ml			
	1			
	Erlenmeyer flask, wide-neck, 100ml			
	1			
	Graduated cylinder 100 ml, PP			
	transparent 1			
	Ring with boss head, i. $d = 10 \text{ cm}$			
	1			
	Universal clamp 1			
	Students thermometer,-10+110°C,			
	1 = 180 mm 1			
	Students thermometer, -			
	10+110°C, 1 = 230 mm 1			
	Spoon, w. spatula end, 18 cm,			
	plastic 1			
	Rubber stopper 26/32, 1 hole 7 mm			
	1			
	Rubber stopper 26/32, 2 holes 7 mm			
	1			
	-			
	Silicone tubing i.d. 7mm 2			1
	Beaker, low, BORO.,3.3, 250ml			1
	1			1
	Beaker, low, BORO.,3.3, 400ml			1
	1			1
	Pipette with rubber bulb 1			
	Support base variable 1			
	Support rod stainless steel 1 = 250			
	Support rod, stainless steel, l = 250			1
	mm, d = 10 mm 1			
	Boss head 2			
	Fishing line, 1. 20m 1			
	Thermometer, non-graduated 1			
	Lid for student calorimeter 1			
	Agitator rod 1			
	Felt sheet 100 mm x 100 mm 2			
	Heating coil with sockets 1			
	Glass tube holder with tape measure			
			_	_

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	clamp 1 Connecting cord, 32 A, 500 mm, blue 2		
	TESS advanced Heat 1 necessary accessories for 1 group1 TESS advanced Heat 1 consumables for 10 groups 1 TESS advanced Physics manual Heat 1 Software interTESS Physics, Heat, DVD 1		
31.	Linear Air Track Kit w/	4 set	
	accessories is a set of mechanical demonstration experiment, the time is measured by digital timer, air cushion guide is used for small gas source, and the products can be used in many kinds of mechanical experiments such as average speed, acceleration and elastic collision.		
32.	Digital Oscilloscope 100MHz with lock screen feature inc. probes and all standard accessories	1 unit	
33.	Frequency Counters 1Hz – 2.5GHz including connectors and other sets of accessories, manual and extensions	1 unit	
34.	Audio Frequency Generator with probes, connectors & other set output frequency of 10 Hz to 1 MHz. It has a sine waveform that is >5 Vrms, and square waveform of >10 Vp-p. It also has an external synchronization that has 3% frequency, and weight is approx. 3.5kg.	2 unit	
35.	TIG Machine Main Voltage(V): 220-415 Frequency(HZ): 50/60 Rated Input Capacity(KVA): 6.3 Power Facto: cosø0.93 Max No-load Voltage(V): 56 Current Range(A): 20-250 Rated Duty Cycle: 85% Insulation Class: B Protection Degree: IP21S Packing Dimension(cm): 50*30*36 Gross Weight(KG): 33.5 Standard Accessories: 1. 3.0m cable TIG torch welding with holder 1PC 2. 1.5m cable with electrode holder 1PC 3. 1.5m cable with earth clamp 1PC	5 unit	

	4. hand-held shield with glass 1PC			
36.	Diesel Engine 2L, surplus or second hand but in good working condition. Engine only without transmission.	1 unit		
37.	Handheld Global Positioning Ssystem Features and Benefits: • Automatic routing (turn by turn routing on roads): yes (with optional mapping for detailed roads) • Electronic compass: yes (tilt-compensated, 3-axis) • Touchscreen: yes • Barometric altimeter: yes • Camera: no • Geocaching-friendly: yes (paperless) • Custom maps compatible: yes • Photo navigation (navigate to geotagged photos): yes • Hunt/fish calendar: yes • Sun and moon information: yes • Tide tables: Yes (with optional Bluechart) • Area calculation: yes • Custom POIs (ability to add additional points of interest): yes • Unit-to-unit transfer (shares data wirelessly with similar units): yes (plus images and custom maps) • Picture viewer: yes • Garmin Connect TM compatible (online community where you analyze, categorize and share data): yes	3 unit		
38.	Stereo Microscope Total magnification: 20X, 60X Eyepieces: wide field WF20X Objectives: rotational 1X & 3X Head: 45°Inclined binocular Left ocular-tube diopter adjustment ±5dp Interpupillary distance: 2-3/16" ~ 2- 15/16" (55mm - 75mm) Working distance: 2-1/4" (57mm) Incident (upper) illuminator: 12V/10W tungsten Transmitted (lower) illuminator: 12V/10W tungsten Easy illumination mode switch: [upper] [off] [lower] Adjustable focus knob tension Frosted glass stage plate: 3-3/4" (95mm) in diameter White/black plastic stage plate: 3- 3/4" (95mm) in diameter Head vertical moving range (along	4 unit		

the pillar): 2-34" (70mm) Focusing adjustment range: 1-5/8" (42mm) Power supply: 110V (US and Canada) Digital camera: - True color 640x480 pixels (0.3MP) - Frame speed: 30fps at 640x480 - Software compatible with Windows operating systems - Offers capturing still images, stitiching, EDF, video recording and measurement functions - USB2.0 cable included Cleaning Pack: - 100 4"x6" cotton lens cleaning sheets - Brush length: 5-1/2" (13.5cm) - 100ml of cleaning solution - Cleaning doth size: 5-7/8" x 6- 34" (15.x 1/70m) Microscope book: "The World of The Microscope Dimension: 9" x 4-3/4" x 12" (23cm x 12cm x 30.5cm) Shipping package: 81 b (4 kg) 39. Munsell Color Chart including manual The Munsell Soil Color Charts is an affordable way to evaluate the type of soil that is present within a given area. The book is set up to allow users to make soil color evaluations in the field quickly and easily. The soil classification system that has been developed around the Munsell color system is an established and accepted process to assign a soil type. 40. Water Analyzer Kit inc. reagents in the field quickly and easily. The soil classification system that has been developed around the Munsell color system is an established and accepted process to assign a soil type. 40. Water Analyzer Kit inc. reagents for 50 tests, set is a charmal test kit that measures six parameters common in water quality testing: alkalinity, chlorick, hardness, fron, pH, and suffire. This kit is equipped with all the necessary reagents and equipment to perform over 100 tests for each parameter, with the exception of iron, which includes reagents for 50 tests, pH is obtained with pHep8, pH electronic tester, which guarantees greater accuracy and a longer life than traditional litimus paper.		I	1	1	T
Power supply: 110V (US and Canada) Digital camera: - True color 640x480 pixels (0.3MP) - Frame speed: 30fps at 640x480 - Software compatible with Windows operating systems - Offers capturing still images, stitching, EDF, video recording and measurement functions - USB2.0 cable included Cleaning Faces: - 100 4*x6* oction lens cleaning sheets - Brush length: 5-1/2" (13.5cm) - 100ml of cleaning solution - Cleaning faces: - 10ml of cleaning solution - Cleaning cloth size: 5-7/8" x 6-34" (15 x 17cm) Microscope book: "The World of The Microscope" Dimension: "X x 3.0.5cm) Shipping package: 8 lb (4 kg) 39. Munsell Color Chart is an affordable way to evaluate the type of soil that is present within a given area. The book is set up to allow users to make soil color evaluations in the field quickly and easily. The soil classification system that has been developed around the Munsell color system is an established and accepted process to assign a soil type. 40. Water Analyzer Kit inc. reagents Inc. et al. (1) the set is a chemical test kit that measures six parameters common in water quality testing: alkalimity, chloride, hardness, iron, pH, and sulfite. This kit is equipped with all the necessary reagents and equipment to perform over 100 tests for each parameter, with the exception of iron, which includes reagents for 50 tests. pH is obtained with pHep®, pH electronic tester, which guarantees greater accuracy and a longer life than traditional litmus paper. 41. Drying/Warming Cabinet Capacity: At least 1001. Maximum temperature: 50°C above					
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Maximum temperature: 50°C above					
lambiant		ambient			
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O.5 second erature: - 4°F) dity: 0~70%Rh cation of "OL". Meter 0-50°C curacy: ±0.5°C ±0.015 (@25°C) Micro printer ne: 5-40 min ator 0.01mL-99.99mL, s 10mL, resolution y: R=0.2% ges erature range: DIN EN ISO 8655 tternal control, rrer and the burette ter nind type i-power advanced ngine, offers el consumption and erations, suitable to rsh land condition. arge fuel filler and enables comfortable	1 unit		
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0.5 second erature: - 4°F) dity: 0~70%Rh			
0.5 second erature: -			
V color correction 0.5 second			
FS+2 digit) : The exclusive UV			
rum: 290~390nm			
/cm ² , 4,000μW/cm ² ,			
//cm²			
ay, maximum			
provides high			
VA & UVB	4 UNIT		
	4!!		
s doors, sliding			
rol for set			
1 S _r //	doors, sliding VA & UVB rovides high rability ray, maximum V/cm² cm², 4,000µW/cm²,	VA & UVB rovides high rability ry, maximum	doors, sliding VA & UVB rovides high rability 4 unit

	1		1	1	
	Cooled				
	ENGINE FUEL: Gasoline				
	NET WEIGHT (KG): 116				
	WORKING CAPACITY				
	HR/HA(HR/ACRE): 3-4 (1. 2-1. 6)				
	OVERALL LENGTH (MM): 2390				
	OVERALL WIDTH (MM): 1470				
	HEIGHT (UP TO HANDLE)				
	(MM): 900				
	CUTTING WIDTH (CM): 120				
47.		1 unit			
4/.	Rice Mill with complete	1 unit			
	accessories and power				
	source(engine/motor)				
	HP: 4"X8"				
	CAPACITY (KG/HR): 600-650				
48.	Diesel Engine	1 unit			
	Brand new, 10Hp; single cylinder				
	diesel engine. To be use for				
	instructional purposes				
49.	Gasoline Engine	1 unit			
	Brand new 5.5Hp; single cylinder	_			
	gasoline engine. To be use for				
	instructional purposes				
50.	Waterprrof Portable Dissolved	1 unit			
30.	Oxygen & BOD	1 dilit			
	Specifications				
	DO Range 0.00 to 50.00 ppm				
	(mg/L); 0.0 to 600.0% saturation				
	DO Resolution 0.01 ppm (mg/L);				
	0.1% saturation				
	DO Accuracy ±1.5% of reading ±1				
	digit				
	DO Calibration automatic one or				
	two point at 100% saturation (8.26				
	mg/L) and 0% saturation (0 mg/L).				
	Atmospheric Pressure Range 450 to				
	850 mmHg				
	Atmospheric Pressure Resolution 1				
	mmHg				
	Atmospheric Pressure Accuracy ± 3				
	mmHg within ±15% from the				
	calibration point				
	Atmospheric Pressure Calibration				
	one point at any in range pressure				
	value				
	Temperature Range -20.0 to				
	120.0°C (-4.0 to 248.0°F)				
	Temperature Resolution 0.1°C				
	(0.1°F)				
	Temperature Accuracy ±0.2°C;				
	±0.4°F (excluding probe error)				
	Temperature Calibration one or two				
	point at any in range temperature				
	value				
	Temperature Compensation				
	automatic from 0 to 50°C (32 to				
	122°F)				
	Measurement Modes direct DO;				
	BOD (biochemical oxygen				
	DOD (blochemical baygen		<u> </u>	Į	

			Т
	demand); OUR (oxygen uptake		
	rate); SOUR (specific oxygen		
	uptake rate)		
	Barometric Compensation		
	automatic from 450 to 850 mmHg		
	Salinity Compenstaion automatic		
	from 0 to 70 g/L		
	Electrode/Probe HI764073		
	polarographic DO probe with		
1	protective sleeve, internal		
1	temperature sensor, DIN connector		
	and 4m (13') cable (included)		
	Log-on-demand up to 400 samples		
	PC Connectivity opto-isolated USB		
	with optional HI 92000 software		
	and micro USB cable		
	Battery Type/Life 1.5V AA		
	batteries (4) / approximately 200		
1	hours of continuous use without		
1	backlight (50 hours with backlight)		
	Auto-off user selectable: 5, 10, 30,		
	60 min or can be disabled		
	Environment 0 to 50°C (32 to		
	122°F); RH 100% (IP67)		
	Dimensions 185 x 93 x 35.2 mm		
	$(7.3 \times 3.6 \times 1.4^{\circ})$		
	Weight 400 g (14.2 oz.)		
	COD Reactor	1 unit	
	Specifications:		
	Power supply, V / Hz 230 / 50-		
	60 or		
	150 / 50-60 (selectable)		
	Power, W 550		
	Dimensions, L x W x H, mm 248		
	x 219 x 171		
	Weight, kg 3.9		
	Construction materials		
	Housing: ABS		
	Protection grid: PPS		
	Lid: PC		
	Block Insert: PBT		
	Heating Block: Aluminum		
	Holes in block 24 - 16.2 mm $\emptyset \pm 0.2$		
	mm		
	Selectable temperatures, °C 100 /		
	120 / 150		
	Probe type Pt100 A class		
	Temperature stability at the Pt100,		
	°C ±1		
	Selectable cycle times, min. 30 / 60		
	$/ 120 / \text{continuous} (\infty)$		
	Heating up time from 20°C to		
	150°C, min. 12		
'	Thermoregulation Microprocessor		
	Protection against overheating, °C		
	At the aluminum block for 190		
	Beeper, dB Maximum 88		
	Environmental conditions for		
	operation		
1 1 9	ODCIANON		i
	Temperature, °C 10 to 40		

	Humidity, % Maximum 85			
52.	Turbidity Meter	1 unit		
	Specifications:			
	Measurement Method: ISO 7027			
	nephelometric method (90°)			
	Measurement Range: 0~1100			
	NTU/FNU, 0~275 EBC, 0~9999			
	ASBC			
	Resolution: 0.01 (0~100 NTU), 0.1			
	(100~999 NTU), 1 (999~1100			
	NTU)			
	Accuracy: ±2% (0~500 NTU), ±3%			
	(501~1100 NTU)			
	Calibration Standards: 0.02, 10,			
	200, 500, 1000 NTU or User-			
	Defined			
	Light Source: Infrared-emitting			
	diode (850 nm wavelength)			
	Detector: Silicon Photodiode			
	Stray Light: < 0.02 NTU			
	Sample Vials: 60(H)×25(Dia.)mm			
	Power Off: Manual or Automatic			
	(15 minutes)			
	Memory: Stores up to 100 data sets			
	Output: USB Communication			
	Interface			
	Operating Temperature: 0~60°C			
	Power Requirements: 1×9V Battery			
	Dimensions:			
	$180(L)\times85(W)\times70(H)$ mm			
	Weight: 300g			

Section VII. Technical Specifications

Notes for Preparing the Technical Specifications

A set of precise and clear specifications is a prerequisite for Bidders to respond realistically and competitively to the requirements of the Procuring Entity without qualifying their bids. In the context of Competitive Bidding, the specifications (*e.g.* production/delivery schedule, manpower requirements, and after-sales service/parts) must be prepared to permit the widest possible competition and, at the same time, present a clear statement of the required standards of workmanship, materials, and performance of the goods and services to be procured. Only if this is done will the objectives of transparency, equity, efficiency, fairness and economy in procurement be realized, responsiveness of bids be ensured, and the subsequent task of bid evaluation and post-qualification facilitated. The specifications should require that all items, materials and accessories to be included or incorporated in the goods be new, unused, and of the most recent or current models, and that they include or incorporate all recent improvements in design and materials unless otherwise provided in the Contract.

Samples of specifications from previous similar procurements are useful in this respect. The use of metric units is encouraged. Depending on the complexity of the goods and the repetitiveness of the type of procurement, it may be advantageous to standardize the General Technical Specifications and incorporate them in a separate subsection. The General Technical Specifications should cover all classes of workmanship, materials, and equipment commonly involved in manufacturing similar goods. Deletions or addenda should then adapt the General Technical Specifications to the particular procurement.

Care must be taken in drafting specifications to ensure that they are not restrictive. In the specification of standards for equipment, materials, and workmanship, recognized Philippine and international standards should be used as much as possible. Where other particular standards are used, whether national standards or other standards, the specifications should state that equipment, materials, and workmanship that meet other authoritative standards, and which ensure at least a substantially equal quality than the standards mentioned, will also be acceptable. The following clause may be inserted in the Special Conditions of Contract or the Technical Specifications.

Sample Clause: Equivalency of Standards and Codes

Wherever reference is made in the Technical Specifications to specific standards and codes to be met by the goods and materials to be furnished or tested, the provisions of the latest edition or revision of the relevant standards and codes shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are national or relate to a particular country or region, other authoritative standards that ensure substantial equivalence to the standards and codes specified will be acceptable.

Reference to brand name and catalogue number should be avoided as far as possible; where unavoidable they should always be followed by the words "or at least equivalent."

References to brand names cannot be used when the Funding Source is the GOP.

Where appropriate, drawings, including site plans as required, may be furnished by the Procuring Entity with the Bidding Documents. Similarly, the Supplier may be requested to provide drawings or samples either with its Bid or for prior review by the Procuring Entity during contract execution.

Bidders are also required, as part of the technical specifications, to complete their statement of compliance demonstrating how the items comply with the specification.

Technical Specifications

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).

Section VIII. Bidding Forms

Notes on the Bidding Forms

The Bidder shall complete and submit with its Bid the **Bid Form** and **Price Schedules** in accordance with **ITB** Clause 15 with the requirements of the Bidding Documents and the format set out in this Section.

When requested in the BDS, the Bidder should provide the **Bid Security**, either in the form included hereafter or in another form acceptable to the Entity, pursuant to **ITB** Clause 18.1.

The **Contract Agreement Form**, when it is finalized at the time of contract award, should incorporate any corrections or modifications to the accepted Bid resulting from price corrections. The Price Schedule and Schedule of Requirements deemed to form part of the contract should be modified accordingly.

The **Performance Security Form** and **Bank Guarantee Form for Advance Payment** should not be completed by the Bidders at the time of their Bid preparation. Only the successful Bidder will be required to provide performance security and bank guarantee for advance payment in accordance with one of the forms indicated herein or in another form acceptable to the Procuring Entity and pursuant to **GCC** Clause 13 and its corresponding SCC provision.

The sworn affidavit must be completed by all Bidders in accordance with **ITB** Clause 4.2. Failure to do so and submit it with the bid shall result in the rejection of the bid and the Bidder's disqualification.

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OMNIBUS SWORN STATEMENT	33

Bid Form

Date:	
Bute.	
Invitation to Bid N°:	
invitation to Bit iv.	

To: MR. VICENTE G. HERNANDEZ

BAC Chairperson Mindoro State College of Agriculture and Technology Alcate, Victoria, Oriental Mindoro

Gentlemen and/or Ladies:

Having examined the Bidding Documents including Bid Bulletin Numbers [insert numbers], the receipt of which is hereby duly acknowledged, we, the undersigned, offer to [supply/deliver/perform] [description of the Goods] in conformity with the said Bidding Documents for the sum of [total Bid amount in words and figures] or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this Bid.

We undertake, if our Bid is accepted, to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements.

If our Bid is accepted, we undertake to provide a performance security in the form, amounts, and within the times specified in the Bidding Documents.

We agree to abide by this Bid for the Bid Validity Period specified in **BDS** provision for **ITB** Clause 18.2 and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal Contract is prepared and executed, this Bid, together with your written acceptance thereof and your Notice of Award, shall be binding upon us.

We understand that you are not bound to accept the Lowest Calculated Bid or any Bid you may receive.

We certify/confirm that we comply with the eligibility requirements as per **ITB** Clause 5 of the Bidding Documents.

We likewise certify/confirm that the undersigned, [for sole proprietorships, insert: as the owner and sole proprietor or authorized representative of <u>Name of Bidder</u>, has the full power and authority to participate, submit the bid, and to sign and execute the ensuing contract, on the latter's behalf for the <u>Name of Project</u> of the <u>Name of the Procuring Entity</u>] [for partnerships, corporations, cooperatives, or joint ventures, insert: is granted full power and authority by the <u>Name of Bidder</u>, to participate, submit the bid, and to sign and execute the ensuing contract on the latter's behalf for Name of Project of the Name of the Procuring Entity].

	,	n each and every page of this Bid Form, includiound for the rejection of our bid.	ng the
Dated this	day of		
[signature]		[in the capacity of]	
Duly authorized to si	gn Bid for and on be	half of	

List of all Ongoing Government & Private Contracts including contracts awarded but not yet started

Business Name : Business Address :									
Name of Contract/Location	a. Owner's Name b. Address Natu	Nature of Work	Bidder's Role	Bidder's Role		Date Awarded Date Started	% o		Value of Outstanding
Project Cost	c. Telephone Nos.	Tracare of Work	Description	%	c.	Date of Completion	Planned	Actual	Works
Government									
Private									
							Total Cos	t	

NOTE: This statement shall be supported with:

- 1 Notice of Award and/or Contract
- Notice to Proceed issued by the owner
 Certificate of Accomplishments signed by the owner or authorized representative

Submitted by	:				
•		(Printed	Name	&	Signature
Designation	:				
Date	:				

List of Single Largest Government & Private Contracts completed which are similar in nature

Business Name :						
Business Address :						
Name of Contract/Location Project Cost	a. Owner's Name b. Address c. Telephone Nos.	Nature of Work	Bidder's Role		a. Amount at Award b. Amount at	a. Date Awardedb. Contract
		water or work	Description	%	Completion	Effectivity
Government						
Private						

NOTE: This statement shall be supported with:

- 1 Contract
- 2. Certificate of Completion3 Certificate of Acceptance

Submitted by	:_	
,		(Printed Name & Signature)
Designation	:	
Date	:	

One of the technical documents required to be in the Eligibility Envelope of a prospective bidder is a list of Single Largest Completed Contract.

NET FINANCIAL CONTRACTING CAPACITY

A. Summary of the Applicant Firm's/Contractor's assets and liabilities on the basis of the attached income tax return and audited financial statement, stamped "RECEIVED" by the Bureau of Internal Revenue or BIR authorized collecting agent, for the immediately preceding year and a certified copy of Schedule of Fixed Assets particularly the list of construction equipment.

		Year 20_
1.	Total Assets	
2.	Current Assets	
3.	Total Liabilities	
4.	Current Liabilities	
5.	Total Net Worth (1-3)	
6.	Current Net Worth or Net Working Capital (2-4)	

B. The Net Financial Contracting Capacity (NFCC) based on the above data is computed as follows:

NFCC = [(Current assets minus current liabilities) (15)] minus value of all outstanding or uncompleted portions of the projects under ongoing contracts, including awarded contracts yet to be started, coinciding with the contact to be bid.
NECC = Php

The value of bidder's current assets and current liabilities shall be based on the latest Audited Financial Statements submitted to the BIR.

Herewith attached are certified true copies of the income tax return and audited financial statement: stamped "RECEIVED" by the BIR or BIR authorized collecting agent for the immediately preceding year.

Submitted by:
Name of Supplier / Distributor Manufacturer
Signature of Authorized Representative Date :

NOTE:

1. If Partnership or Joint Venture, each Partner or Member Firm of Joint Venture shall submit the above requirements.

The above information are among the financial documents required for Eligibility Check. Together with the legal and technical documents required, the financial documents shall be placed inside the Eligibility Envelope and submitted to the BAC on or before the deadline for the submission and receipt of Eligibility Envelopes.

BID SECURITY (BANK GUARANTEE)

	<u>(Name of Bidder)</u> (hereinafter called "the Bidder") has submitted his bid te) for the <u>(Name of Contract)</u> (hereinafter called "the Bid").
having our bound unto for which pa	MEN by these presents that We <u>(Name of Bank)</u> of <u>(Name of Country</u> registered office at <u>(Name of Entity</u>) (hereinafter called "the Bank" are <u>(Name of Entity</u>) (hereinafter called "the Entity) in the sum of <u>(Name of Entity</u>) yment well and truly to be made to the said Entity the Bank binds himself, hind assigns by these presents.
SEALED with	the Common Seal of the said Bank this day of 20
THE CONDITI	ONS of this obligation are that:
1)	if the Bidder withdraws his Bid during the period of bid validity specified in the Form of Bid; or
2)	if the Bidder does not accept the correction of arithmetical errors of his bid price in accordance with the Instructions to Bidder; or
3)	if the Bidder having been notified of the acceptance of his bid and award of contract to him by the Entity during the period of bid validity:
	a) fails or refuses to execute the Form of Contract in accordance with the Instructions to Bidders, if required; or
	b) fails or refuses to furnish the Performance Security in accordance with the Instructions to Bidders;
demand, wi Entity will	ake to pay to the Entity up to the above amount upon receipt of his first written ithout the Entity having to substantiate its demand, provided that in his demand the note that the amount claimed by it is due to the occurrence of any one or n of the three (3) conditions stated above.
the deadlin as it may be	ntee will remain in force up to and including the date3 days after e for submission of Bids as such deadline is stated in the Instructions to Bidders or extended by the Entity, notice of which extension(s) to the Bank is hereby waived in respect of this Guarantee should reach the Bank not later than the above date.
DATE	: SIGNATURE OF THE BANK
WITNESS	: SEAL
(Signature,	Name and Address)

² The bidder should insert the amount of the guarantee in words and figures, denominated in the currency of the Entity's country or an equivalent amount in a freely convertible currency. This figure should be the same as shown of the Instructions to Bidders.

³ Usually 28 days after the end of the validity period of the Bid. Date should be inserted by the Entity before the bidding documents are issued.

BID SECURITY: SURETY BOND

BOND NO.: _		DATE BOND EXECUTED:
of Surety) country of	of the co <u>(Name o</u>	<u>lame of Bidder)</u> (hereinafter called "the Principal") as Principal and <u>(Name of Country of Surely)</u> , authorized to transact business in the <u>f Country of Employer)</u> (hereinafter called "the Surety") are held and firmly <u>of Employer)</u> (hereinafter called "the Employer") as Obligee, in the sum of1 for the payment of which sum, well and truly to be made, we, the said
Principal and presents.	Surety bi	nd ourselves, our successors and assigns, jointly and severally, firmly by these
SEALED with	our seals	and dated this day of 20
		al has submitted a written Bid to the Employer dated the day of, for the for the (hereinafter called "the Bid").
NOW, THEREF	ORE, the	conditions of this obligation are:
1)	If the F of Bid;	Principal withdraws his Bid during the period of bid validity specified in the Form or
2)		Principal does not accept the correction of arithmetical errors of his bid price in ance with the Instruction's to Bidders: or
3)		Principal having been notified of the acceptance of his Bid by the Employer the period of bid validity:
	a)	fails or refuses to execute the Form of Agreement in accordance with the Instructions to Bidders, if required; or
	b)	fails or refuses to furnish the Performance Security in accordance with the Instructions to Bidders;
then this oblic	gation sha	all remain in full force and effect, otherwise it shall be null and void.

PROVIDED HOWEVER, that the Surety shall not be:

- a) liable for a greater sum than the specified penalty of this bond, nor
- b) liable for a greater sum that the difference between the amount of the said Principal's Bid and the amount of the Bid that is accepted by the Employer.

This Surety executing this instrument hereby agrees that its obligation shall be valid for 120 calendar days after the deadline for submission of Bids as such deadline is stated in the Instructions to Bidders or as it may be extended by the Employer, notice of which extension(s) to the Surety is hereby waived.

¹ The bidder should insert the amount of bond in words and figures, denominated in the currency of the Employer's country of an equivalent amount in a freely convertible currency and callable on demand. This figure should be the same as shown in the Instructions to Bidders.

PRINCIPAL	SURETY
SIGNATURE(S)	SIGNATURES(S)
NAME(S) AND TITLE(S)	NAME(S)
SFAI	SFAI

REPUBLIC OF THE PHILIPPINES)
	_)S.S

BID-SECURING DECLARATION

Invitation to Bid No. _____[insert reference number]

To: MINDORO STATE COLLEGE OF AGRICULTURE AND TECHNOLOGY – MAIN CAMPUS Alcate, Victoria, Oriental Mindoro

I / We, the undersigned, declare that:

- 1. I / we understand that, according to your conditions, bids must be supported by a Bid
 - Security, which may be in the form of a Bid-Securing Declaration.
- 2. I / We accept that: (a) I / we will be automatically disqualified from bidding for any contract with any procuring entity for the period of two (2) years upon receipt of your Blacklisting Order; and (b) I / we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, if I / we have committed any of the following actions:
 - i) Withdrawn my / our Bid during the period of bid validity required in the Bidding documents; or
 - ii) Fail or refuse to accept the award and enter into contract or perform any and all acts necessary to the execution of the contract, in accordance with the Bidding Documents after having been notified of your acceptance of our Bid during the period of bid validity.
- 3. I / we understand that this Bid-Securing Declaration shall cease to be valid on the following circumstances:
 - a) Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
 - b) I am / we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I / we failed to timely file a request for reconsideration or (ii) I / we filed a waiver to avail of said right;
 - c) I am / we are declared as the bidder with the Lowest Calculated and Responsive Bid / Highest Rated and Responsive Bid, and I / we have furnished the performance security and signed the Contract.

	IN WITNESS	WHEREOF, I /	we	have	hereunto	set my	/ oui	· hand/s	this	 day
of	, at									

Name of Bidder

Authorized

Representative
Legal Capacity

Affiant

SUBSCRIBED AND SWORN to before	e me thisday of
at	, Philippines. Affiant /s
is / are personally known to me and was / were is of identity as defined in the 2004 Rules on Notaria exhibited to me his / her [insert type of government of photograph and signature appearing thereon, with notate the control of th	dentified by me through competent evidence I Practice (A.M.) No. 02-8-13-SC). Affiant/s nent identification card used, with his / her community
Witness my hand and seal this day of	
	NAME OF NOTARIAL PUBLIC Serial No. of Commission Notary Public for until Roll of Attorney's No PTR No, [date issued], [place issued] IBP No, [date issued], [place issued]
Doc. No Page No Book No Series of	

CONFORMITY WITH SCHEDULE OF REQUIREMENTS

T .			REMARKS
Item No.	Section VI – Schedule of Requirements	Qty.	Comply Not Comply
1.	Trinocular Compound Microscope with Camera Specifications: Total magnification: 40X-100X-250X-400X-1000X-2500X Eyepieces: wide field WF10X and WF25X Objective: achromatic DIN 4X, 10X, 40X(S), 100X(S, Oil) Viewing head: 45°Inclined 360°swiveling trinocular Sliding adjustable interpupillary distance: 2-3/16" ~ 2- 15/16"(55mm ~ 75mm) Ocular diopter adjustable on both eyetubes Nosepiece: revolving quadruple Stage: mechanical double layer size: 4-1/2"x 4-15/16" (115mm x 125mm) Stage x-y stroke (travel range): 2-13/16" x 1-3/16" (70mm x 30mm) Condenser & diaphragm: NA1.25 Abbe condenser with iris diaphragm Transmitted (lower) illuminator: LED light, intensity adjustable Focus adjustment: Coaxial coarse & fine knobs on both sides All metal mechanical components Extensive slide preparation kit, cleaning kit and the World of the Microscope book included> 25-piece prepared slides, 100-piece blank glass slides with > 100-piece cover slips and 100-sheet lens cleaning paper included>Power supply: AC/DC adapter, 100V-240V (UL approved)Digital camera:- True color 2592x1944 pixels (5MP)- Frame speed: 2fps at 2592x1944, 3fps at 2048x1536, 5fps at 1600x1200, 7.5fps at 1280x1024> Software compatible with Windows operating systems and Mac OS > Offers capturing still images, stitching, EDF, video recording and measurement functions> USB2.0 cable included> Dimension: 9-1/16" x 7-1/8" x 14-1/4" (23cm x 18cm x 36cm)>Package weight: 11 lbs (5 kg)	3 unit	
2.	Dissecting Microscope - Specifications: Total magnification: 20X, 40X, 80X Eyepieces: widefield WF10X/20 and WF20X Rotational objectives: 2X, 4X Head: 45°Inclined binocular with locked-in eyepieces Diopter adjustment on left ocular-tube Interpupillary distance: 2-3/16" ~ 2-15/16"(55mm ~ 75mm) Working distance: 2-1/4" (57mm) Field of view: 10mm/5mm LED cold illuminators: incident (upper) and transmitted (lower) Frosted glass stage plate: 3-3/4" (95mm) in diameter White/black plastic stage plate: 3-3/4" (95mm) in diameter Head vertical moving range (along the pillar): 2-3/4" (70mm) Focusing adjustment range: 1-5/8" (42mm) All metal mechanical components Full optical glass elements	8 unit	

	Power supply:		
	Power adapter: 120V AC		
	Battery: 3 AA batteries		
	Digital camera:		
	- True color 640x480 pixels (0.3MP) - Frame speed: 30fps at 640x480		
	- Software compatible with Windows operating systems and		
	Mac OS		
	- Offers capturing still images, stitching, EDF, video recording		
	and measurement functions		
	- USB2.0 cable included		
	Dimension: 8-1/4"x 4-3/4" x 14-1/4" (21cm x 12cm x 36cm) Shipping package: 6 lb (3 kg)		
	Shipping package. 0 to (3 kg)		
3.	Water Testing Sensors & Modules	2 set	
	Consist of the ff: USB Module-1unit, RF Communication		
	Module - 2units, Battery Module - 1unit, Digital Display module - 1 unit, Graphic Display Module - 1 unit, Oxygen		
	Logger sensor -1 unit, Temperature logger sensor -1 unit,		
	Conductivity logger sensor -1 unit, pH logger sensor -1 unit,		
	Barometer logger sensor - 1 unit, Case for Neulog sensor kit -		
	1pc		
4.	Underwater Quantum Meter	1 unit	
	Specifications:		
	Calibration Uncertainty: ± 5 %		
	Measurement Repeatability: Less than 1 %		
	Long-term Drift (Non-stability): Less than 2 % per year Non-linearity: Less than 1 % (up to 3000µmol m-2 s-1)		
	Response Time: Less than 1 ms		
	Field of View: 180°		
	Spectral Range: 410 to 655 nm (wavelengths where response is		
	greater than 50% of maximum)		
	Directional (Cosine) Response: ± 5 % at 75° zenith angle		
	Temperature Response: $0.06 \pm 0.06 \%$ per C Operating Environment: 0 to 50 C; less than 90 % non-		
	condensing relative humidity up to 30 C; less than 70 %		
	non-condensing relativity humidity from 30 to 50 C; separate		
	sensors can be submerged in		
	water up to depth of 30 m		
	Meter Dimensions: 126 mm length, 70 mm width, 24 mm		
	height Sensor Dimensions: 24 mm diameter, 28 mm height		
	Mass: 180 g		
	Cable: 2 m of shielded, twisted-pair wire; additional cable		
	available; santoprene rubber jacket		
5.	Tinocular Stereo Microscope	1 unit	
3.	Specifications:	I UIIIL	
	Total magnification: 3.5X-90X		
	Head: 45°inclined 360°rotatable trinocular		
	Eyepieces: 30mm widefield WF10X/20 and WF20X		
	Objective: zoom 0.7X-4.5X Zoom ratio: 6.5:1		
	Auxiliary objective lens: 0.5X		
	Separate photo-tube focus adjustment		
	Beam split lever enables photo-tube or left eye-tube		
	Interpupillary distance: adjustment 2-3/16" ~ 2-15/16"(55mm ~		
	75mm)		
	Diopter: adjustable on both ocular-tubes ±5dp Working distance: 6-1/2" (165mm) with 0.5X auxiliary lens and		
1	working distance, 0-1/2 (10311111) with 0.3A auxillary iclis allu-		

	3-3/4" (95mm) without 0.5X auxiliary lens		
	Field of view: max 2-3/8" (60mm) with 0.5X auxiliary lens and		
	max 1-1/8"(29mm) without 0.5X auxiliary lens		
	Focus adjustment stroke: 2-3/8" (60mm)		
	Incident (upper) illuminator: 12V/10W halogen with reflector,		
	90° adjustable inclined angle range		
	Transmitted (lower) illuminator: 12V/10W halogen		
	Each light has its own intensity control		
	Main power on/off switch		
	Mounting size of auxiliary lens and ring lights: 50mm female		
	thread		
	Plastic shell 54 LED with 100V-240V wide voltage range		
	power adapter		
	Glass stage plate: 3-3/4" (95mm) in diameter		
	White/black plastic stage plate: 3-3/4" (95mm) in diameter		
	Sturdy metal framework		
	Power supply: 100V~240V, 50/60Hz (US and Canada Plug)		
	Digital camera:		
	- true color 4096x3288 pixels (14M pixels)		
	- 0.5X reduction lens to get larger field of view		
	- 0.01 mm calibration slide: 1mm/100 division		
	- Frame speed: 1.8fps at 4096x3288, 10fps at 2048x1644, 27fps		
	at 1024x822		
	- Software compatible with Windows, Mac OS X and Linux		
	operating systems		
	- Capturing microscope images, recording live video, measuring		
	lengths, angles, areas, editing images		
	- USB 2.0 cable included		
	Dimension: 9 " x 6" x 17-1/2" (23cm x 16cm x 44cm)		
	Shipping package: 20 lbs (9 kg)		
	5		
1	Water Ovality Meter Kit	2:1	
6.	Water Quality Meter Kit	3 unit	
6.	Specifications:	3 unit	
6.	Specifications: pH range: 0.00 to 14.00pH	3 unit	
6.	Specifications: pH range: 0.00 to 14.00pH ORP (mV) range: -999 to 999mV	3 unit	
6.	Specifications: pH range: 0.00 to 14.00pH	3 unit	
6.	Specifications: pH range: 0.00 to 14.00pH ORP (mV) range: -999 to 999mV Chlorine (ppm) range: 0.01 to 10.00ppm	3 unit	
6.	Specifications: pH range: 0.00 to 14.00pH ORP (mV) range: -999 to 999mV Chlorine (ppm) range: 0.01 to 10.00ppm Temperature range: 23° to 194°F (-5 to 90°C)	3 unit	
6.	Specifications: pH range: 0.00 to 14.00pH ORP (mV) range: -999 to 999mV Chlorine (ppm) range: 0.01 to 10.00ppm Temperature range: 23° to 194°F (-5 to 90°C) Max Resolution: 0.01pH, 1mV, 0.01ppm, 0.1°	3 unit	
6.	Specifications: pH range: 0.00 to 14.00pH ORP (mV) range: -999 to 999mV Chlorine (ppm) range: 0.01 to 10.00ppm Temperature range: 23° to 194°F (-5 to 90°C) Max Resolution: 0.01pH, 1mV, 0.01ppm, 0.1° Basic Accuracy: ±0.01pH, ±4mV, ±10% of reading ±0.01ppm;	3 unit	
6.	Specifications: pH range: 0.00 to 14.00pH ORP (mV) range: -999 to 999mV Chlorine (ppm) range: 0.01 to 10.00ppm Temperature range: 23° to 194°F (-5 to 90°C) Max Resolution: 0.01pH, 1mV, 0.01ppm, 0.1° Basic Accuracy: ±0.01pH, ±4mV, ±10% of reading ±0.01ppm; ±1.8°F/±1°C	3 unit	
6.	Specifications: pH range: 0.00 to 14.00pH ORP (mV) range: -999 to 999mV Chlorine (ppm) range: 0.01 to 10.00ppm Temperature range: 23° to 194°F (-5 to 90°C) Max Resolution: 0.01pH, 1mV, 0.01ppm, 0.1° Basic Accuracy: ±0.01pH, ±4mV, ±10% of reading ±0.01ppm; ±1.8°F/±1°C Memory: 15 readings	3 unit	
6.	Specifications: pH range: 0.00 to 14.00pH ORP (mV) range: -999 to 999mV Chlorine (ppm) range: 0.01 to 10.00ppm Temperature range: 23° to 194°F (-5 to 90°C) Max Resolution: 0.01pH, 1mV, 0.01ppm, 0.1° Basic Accuracy: ±0.01pH, ±4mV, ±10% of reading ±0.01ppm; ±1.8°F/±1°C Memory: 15 readings Dimensions/ Weight: Meter: 1.4x6.8x1.6"	3 unit	
	Specifications: pH range: 0.00 to 14.00pH ORP (mV) range: -999 to 999mV Chlorine (ppm) range: 0.01 to 10.00ppm Temperature range: 23° to 194°F (-5 to 90°C) Max Resolution: 0.01pH, 1mV, 0.01ppm, 0.1° Basic Accuracy: ±0.01pH, ±4mV, ±10% of reading ±0.01ppm; ±1.8°F/±1°C Memory: 15 readings Dimensions/ Weight: Meter: 1.4x6.8x1.6" (35.6x172.7x40.6mm)/ 3.85oz (110g)		
7.	Specifications: pH range: 0.00 to 14.00pH ORP (mV) range: -999 to 999mV Chlorine (ppm) range: 0.01 to 10.00ppm Temperature range: 23° to 194°F (-5 to 90°C) Max Resolution: 0.01pH, 1mV, 0.01ppm, 0.1° Basic Accuracy: ±0.01pH, ±4mV, ±10% of reading ±0.01ppm; ±1.8°F/±1°C Memory: 15 readings Dimensions/ Weight: Meter: 1.4x6.8x1.6" (35.6x172.7x40.6mm)/ 3.85oz (110g) Hotplate Magnetic Stirrer, with connection for	3 unit	
	Specifications: pH range: 0.00 to 14.00pH ORP (mV) range: -999 to 999mV Chlorine (ppm) range: 0.01 to 10.00ppm Temperature range: 23° to 194°F (-5 to 90°C) Max Resolution: 0.01pH, 1mV, 0.01ppm, 0.1° Basic Accuracy: ±0.01pH, ±4mV, ±10% of reading ±0.01ppm; ±1.8°F/±1°C Memory: 15 readings Dimensions/ Weight: Meter: 1.4x6.8x1.6" (35.6x172.7x40.6mm)/ 3.85oz (110g)		
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10.	Refractometer	4 unit	
	Specifications:		
	type: Salt (ATC)		
	ranges: 0 to 100ppt (10 to 30°C) 1.000 to 1.070 Specific		
	Gravity		
	resolution: 1ppt 0.001		
	accuracy: ±0.1% ±0.001		
11.	Digital Analytical Balance	1 unit	
	Specifications:		
	Capacity: 200g		
	Resolution: 0.001g		
	Scale pan size: Ø90mm		
	Power: 12V/6V/1.2AH		
	With automatic external calibration weights, easy to operate,		
	standard weights.		
	Anti-overload protection and automatic fault tips		
	High-contrast, large LCD display, display backlit		
	A variety of unit conversion, easy to operate		
	AC-DC dual use, long standby time		
12.	Water Quality Starter Kit	1 unit	
	It measures six parameters common in water quality testing:		
	alkalinity, chloride, hardness, iron, pH, and sulfite. This kit is		
	equipped with all the necessary reagents and equipment to		
	perform over 100 tests for each parameter, with the exception of		
	iron, which includes reagents for 50 tests. With Portable		
	carrying case for easy transport		
13.	Graphic Data Logger w/ advanced Water Quality Sensor	1 unit	
	Consist of the ff:		
	USB module − 1 , RF Communication module − 2		
	Battery module – 1, Digital display module -1, Graphic		
	Display Module – 1, Oxygen logger sensor – 1, Temperature		
	logger sensor – 1, Conductivity logger sensor – 1, pH logger		
	sensor – 1, Barometer logger sensor – 1, Case for NeuLog		
	sensor kit – 1		
14.	Dektop Computer	15 unit	
1	CPU: AMD A8-7600K 3.1/3.8Ghz 6-Core FM2+ Kaveri	25 0	
	Motherboard: MSI or Emaxx		
	RAM: Kingston DDR4 8GB		
	HDD: Seagate SATA 1TB		
	Monitor: 19" ACER/AOC LED		
	Keyboard: A4Tech PS/2		
	Mouse: A4Tech PS/2 Optical		
	Case: ATX AVR		
	Cust. 1111 11VIX		
15.	2-in 1 Ink Tank System Printer	6 unit	
13.	WEIGHT 3.7 kg (3700g)	o unit	
	DIMENSION (CM) (L X W X H) 55 x 29 x 19 cm		
	PRINTER RESOLUTIONS Up to 1200 × 6000 dpi		
1.7	CAPACITY 64 MB	0	
16.	Compound Microscope	8 unit	
	Specifications: Total magnifications: 300X, 600X, and 1200X		
	Body Type: durable metal arm		
	Illumination: built-in LED light and reflecting mirror		
	Eyepiece: holder type single		
	Stage: 70 x 65mm Slide holder: dual spring clips		
	Accessory set: 1 shrimp hatchery, 1 specimen slicer, 5 prepared		
	slides, 7 blank slides, 1 petri dish, 7 slide cover, 1 plastic		
L	singes, / blank singes, i peni disti, / singe cover, i piastic		

	tweezer, 1 graduated cylinder, 1 spare bulb, 7 statical slide		
	covers, 7 slide labels, 1 plastic scalpel, 1 plastic spatula, 1		
	needle, 1 plastic stirring rod, 1 eosin, 1 gum media in a bottle, 1		
	sea salt, 1 brine shrimp eggs, 2 collecting vials, 2 AA batteries		
	Shipping weight: 5 lbs (2.5 kg)		
17.	Binocular Microscope	3 unit	
	Specifications:		
	Total magnification: 40X-64X-100X-160X-400X-640X-		
	1000X-1600X		
	Eyepieces: widefield WF10X and P16X		
	Objectives: achromatic DIN 4X, 10X, 40X(S), 100X(S, Oil)		
	Viewing head: 45°Inclined 360°swiveling binocular		
	Interpupillary distance: sliding adjustable 2-3/16" ~ 2-		
	15/16"(55~75mm)		
	Diopter: adjustable on both ocular eyetubes		
	Nosepiece: revolving quadruple		
	Stage: double layer X-Y mechanical stage with scales, size: 4-		
	1/2"x 4-15/16" (115mm x 125mm), translation range: 2-13/16"		
	x 1-3/16" (70mm x 30mm)		
	Stage upward moving lock protects objectives and slides Condenser: NA1.25 Abbe condenser with iris diaphragm		
	Illumination: transmitted (lower) LED light, intensity adjustable		
	Focus: Coaxial coarse & fine knobs on both sides		
	Full solid metal frame construction with stain resistant enamel		
	finish		
	Power supply: AC/DC adapter, 100V-240V (UL approved)		
	Dimension: 9-1/16" x 7-1/8" x 13" (23cm x 18cm x 33cm)		
	Net weight: 7 lb 2 oz (3.25 kg)		
	Package weight: 9 lb (4 kg)		
18.	Human Anatomy Model	1 unit	
10.	85 cm, a unisex torso including 40 parts: torso, female breast	2 01110	
	plate, head, eyeball, brain (8 parts), vertebra spinal nerves (4		
	parts), lung (4 parts), heart (2 parts), trachea, esophagus and		
	descending aorta, diaphragm, liver, kidney, stomach (2 parts),		
	intestines (4 parts), male genitalia (4 parts), female genitalia		
	with fetus (3 parts)		
19.	Human Torso Model (male & female)	1 unit	
	Between the trunk model is divided into 20: torso, head, eye,		
	brain, lung (2), (2) the heart, liver, gallbladder, kidney, stomach		
	(2 pieces), intestinal (2 pieces), the male reproductive organs		
	(2), (2) the female reproductive organs and spinal cord. Size: 55		
	cm.		
	Packing: 6 PCS/box, 63 * 47 * 51 cm, 21 KGS		
20.	Electrolysis Apparatus	4 set	
	Comprises a pair of Carbon electrodes, tapered at one end		
	mounted at the base of clear transparent container through holed		
	rubber stoppers, which are insulated from each other to prevent		
	accidental short circuiting. The container has a pair of 4mm		
	color coded sockets near the bottom for connections. Includes		
	two graduated test tubes, 10ml each, held firmly in spring clips.		
21.	Spectroscope	3 unit	
	To observe several spectra: continuous spectrum, emission		
	spectrum, absorption spectrum and solar spectrum.		
22.	Rotary Evaporator	1 unit	
,	Specifications:		
	Rotation speed: 20-260rpm		
	Rotation Speed Display: LCD		
	Titled Angel: 0-60°		
	Motor Power: 40W		
	Stroke Displacement: 150mm		

		Т	T
	Lifting: Manual		
	Temp. Range: Ambient - 180°		
	Bath Material: 304 SSL		
	Temp. Controller Display: LCD		
	Temp. Controller Mode: P.I.D.		
	Temp. Control Accuracy: ±1°C(Water), ±2°C (Oil)		
	Heating Power: 1300W		
	Bath Capacity: 5L		
	Bath Diameter: 250mm		
	Evaporation Volume: 50-3000mL		
	Condenser Type: Vertical		
	Cooling Surface cm2: 1200 Protection class: IP20		
	Ambient Temperature: 0°C to 4°C		
	Dimensions (L×W×H) Inch: 15×14×28		
	Weight (Lbs): 51		
	Voltage: 110V,60Hz/ 230V, 50Hz		
23.	Basic Hemocytometer	2 unit	
25.	consists of a thick glass microscope slide with a rectangular	2 unit	
	indentation that creates a chamber		
2.4		Ait	
24.	Optic Bench Used in optical experiments to support various optical components, the study of the law of lens imaging, focus	4 unit	
	measurement, with a microscope, telescope, etc., for the students to use. Can also be done in light of interference,		
	diffraction, polarization and other projection demonstration. The light fixture seat is composed of a guide rail (including a		
	support, a guide rail length 1000mm), a sliding block, a scale		
2.5	and an accessory. Dynamic Trolley	4 1	
25.	consists of a rectangular body carried upon three low-friction	1 set	
	wheels and is supplied with one strong spring plunger and three		
	dowel pegs.		
26.	Basic Optic System	5 set	
20.	Accessories for the Optic Bench include: biconvex lens 2	3 361	
	blocks, convex lens		
	1 block, biconcave lens 1 block, "1" word screen 1 block, 1		
	piece of white screen, five bar, frosted glass screen (screen) 1		
	block, light source 1 set,a Candlestick, guide rail and the datum		
	plane of the parallelism error is not greater than 1.00		
27.	Boyle's Law Apparatus	6 set	
27.	The apparatus comprises a thick walled, wide-bore glass tube	0 000	
	mounted vertically in front of a scale graduated, with closed		
	end of the tube at the top and open bottom end secured tightly		
	on the thick-walled metal tube with O-ring to get leak-proof		
	joint.Other end of metal tube connected to a cylindrical oil		
	chamber filled with colored oil and capable of withstanding		
	high pressures.		
28.	Forensic Optical Comparator	1 set	
	Technical parameter as follows:		
	Dual screen projections		
	No image overlap		
	Dual 300-watt quartz projection lamps		
	Dual or simultaneous operation		
	Adjustable focusing platforms		
	Matched f / 3. 5 objective lenses		
	Dual power magnification (6. 5x and 10x)		
	Sliding turret with pre-focused illumination		
	Four-inch internal cooling fan		
	Thermal cutoff of fan below 100 degree f		
	Aluminum / steel construction		
	Hardwood formica-covered base		

	Easy access relamping doors		
	Viewing screen 6 1 / 2" x 15"		
	Sliding ambient light shield		
	Overall dimensions: 20 1 / 2" x 18" x20 1 / 2"		
29.	Training & Experimentation System for Students (TESS)	1 set	
	Advance Physics Basic Set Mechanics 1 & accessories		
	Consist of the ff:		
	Measuring tape, $l = 2 \text{ m}$ 1		
	TESS box, plastics, high, 305 x 425 x 150 mm 1		
	Lid for TESS box, plastic 1		
	Digital stop watch, 24 h, 1/100 s & 1 s 1		
	Beaker, 100 ml, low form, plastic 1		
	Beaker, 250 ml, low form, plastic 1		
	Graduated cylinder, 50ml, plastic 1		
	Set of precision weights, 1g-50g 1		
	Pipette with rubber bulb 1		
	1		
	Support base variable 1		
	Support rod, stainless steel, 1 = 250 mm, d = 10 mm 1		
	Support rod with hole, stainless steel, 10 cm 2		
	Boss head 2		
	Fishing line, 1. 20m 1		
	Weight holder for slotted weights 2		
	Slotted weight, 10 g, black 4		
	Slotted weight, 50 g, black 3		
	Helical spring, 3 N/m 1		
	Helical spring, 20 N/m 1		
	Pulley, movable, dia.65mm, w. hook 1		
	Rod for pulley 1		
	Pulleys, double in line 2		
	Vernier calliper, plastic 1		
	Spring balance, transparent, 1 N 1		
	Spring balance, transparent, 2 N 1		
	Spring balance holder 2		
	Aluminium column 1		
	Steel Column nickel-plated 1		
	Holding pin 1		
	Balance pan, plastic 2		
	Lever 1		
	Pointer for lever 1		
	Plate with scale 1		
	Pulley, movable, dia.40mm, w. hook 1		
	Steel pellets, $d = 2 \text{ mm}$, 120 g 1		
	Wood column 1		
	Glass tube holder with tape measure clamp 1		
	TESS advanced Mechanics ME 1 consumables for 10 Groups		
	1		
	TESS advanced Physics manual Mechanics 1 to 5 1		
	Software interTESS Physics, Mechanics, DVD 1		
	, , ,		
30.	TESS Advance Physics Set Heat 1 & accessories	1 set	
	Consist of the ff:		
	Measuring tape, $l = 2 \text{ m}$ 1		
	TESS box, plastics, high, 305 x 425 x 150 mm 1		
	Lid for TESS box, plastic 1		
	Digital stop watch, 24 h, 1/100 s & 1 s 1		
	Wire gauze 160 mm x 160 mm, ceramic cen. 1		
	Beaker, 100 ml, low form, plastic 1		
	Erlenmeyer flask, wide neck, 250ml 1		
	Erlenmeyer flask, wide-neck, 100ml 1		
	Graduated cylinder 100 ml, PP transparent		
1			

	Ring with boss head, i. d. = 10 cm 1		
	Universal clamp 1		
	Students thermometer,-10+110°C, 1 = 180 mm 1		
	Students thermometer, $-10+110$ °C, $1 = 230$ mm 1		
	Spoon, w. spatula end, 18 cm, plastic 1		
	Rubber stopper 26/32, 1 hole 7 mm 1		
	Rubber stopper 26/32, 2 holes 7 mm 1		
	Silicone tubing i.d. 7mm 2		
	Beaker, low, BORO.,3.3, 250ml		
	Beaker, low, BORO.,3.3, 400ml		
	Pipette with rubber bulb 1		
	Support base variable 1		
	Support rod, stainless steel, 1 = 250 mm, d = 10 mm 1		
	Boss head 2		
	Fishing line, 1. 20m 1		
	Thermometer, non-graduated 1		
	Lid for student calorimeter 1		
	rigitator rou		
	Felt sheet 100 mm x 100 mm 2		
	Heating coil with sockets 1		
	Glass tube holder with tape measure clamp 1		
	Connecting cord, 32 A, 500 mm, blue 2		
	TESS advanced Heat 1 necessary accessories for 1 group1		
	TESS advanced Heat 1 consumables for 10 groups 1		
	TESS advanced Physics manual Heat 1		
	Software interTESS Physics, Heat, DVD 1		
31.	Linear Air Track Kit w/ accessories	4 set	
	is a set of mechanical demonstration experiment, the time is		
	measured by digital timer, air cushion guide is used for small		
	gas source, and the products can be used in many kinds of		
	mechanical experiments such as average speed, acceleration and		
	elastic collision.		
32.	Digital Oscilloscope	1 unit	
	100MHz with lock screen feature inc. probes and all standard		
	accessories		
33.	Frequency Counters	1 unit	
	1Hz – 2.5GHz including connectors and other sets of		
	accessories, manual and extensions		
34.	Audio Frequency Generator with probes, connectors &	2 unit	
34.	other set	2 unit	
	output frequency of 10 Hz to 1 MHz. It has a sine waveform		
	that is >5 Vrms, and square waveform of >10 Vp-p. It also has		
	an external synchronization that has 3% frequency, and weight		
	is approx. 3.5kg.	_	
35.	TIG Machine	5 unit	
	Main Voltage(V): 220-415		
	Frequency(HZ): 50/60		
	Rated Input Capacity(KVA): 6.3		
	Power Facto: cosø0.93		
	Max No-load Voltage(V): 56		
	Current Range(A): 20-250		
	Rated Duty Cycle: 85%		
	Insulation Class: B		
	Protection Degree: IP21S		
	Packing Dimension(cm): 50*30*36		
	Gross Weight(KG): 33.5		
	Standard Accessories:		
1	1. 2. One cololo TIC tomb vivolding viith holder 1DC		
1	1. 3.0m cable TIG torch welding with holder 1PC		

	2.1511id1		
	2. 1.5m cable with electrode holder 1PC		
	3. 1.5m cable with earth clamp 1PC		
	4. hand-held shield with glass 1PC		
2.6	D' IE '	4 '	
36.	Diesel Engine	1 unit	
	2L, surplus or second hand but in good working condition.		
	Engine only without transmission.		
37.	Handheld Global Positioning Ssystem	3 unit	
	Features and Benefits:		
	• Automatic routing (turn by turn routing on roads): yes (with		
	optional mapping for detailed roads)		
	• Electronic compass: yes (tilt-compensated, 3-axis)		
	• Touchscreen: yes		
	Barometric altimeter: yes		
	• Camera: no		
	• Geocaching-friendly: yes (paperless)		
	Custom maps compatible: yes Photo navigation (navigate to geotagged photos): yes		
	Hunt/fish calendar: yes Sun and moon information: yes		
	Tide tables: Yes (with optional Bluechart) Area calculation: yes		
	Custom POIs (ability to add additional points of interest): yes		
	Unit-to-unit transfer (shares data wirelessly with similar		
	units): yes (plus images and custom maps)		
	Picture viewer: yes		
	• Garmin Connect™ compatible (online community where you		
	analyze, categorize and share data): yes		
	anaryze, categorize and snare data). yes		
38.	Stereo Microscope	4 unit	
56.	Total magnification: 20X, 60X	4 01110	
	Eyepieces: wide field WF20X		
	Objectives: rotational 1X & 3X		
	Head: 45°Inclined binocular		
	Left ocular-tube diopter adjustment ±5dp		
	Interpupillary distance: $2-3/16$ " ~ $2-15/16$ " (55mm - 75mm)		
	Working distance: 2-1/4" (57mm)		
	Incident (upper) illuminator: 12V/10W tungsten		
	Transmitted (lower) illuminator: 12V/10W tungsten		
	Easy illumination mode switch: [upper] [off] [lower]		
	Adjustable focus knob tension		
	Frosted glass stage plate: 3-3/4" (95mm) in diameter		
	White/black plastic stage plate: 3-3/4" (95mm) in diameter		
	Head vertical moving range (along the pillar): 2-3/4" (70mm)		
	Focusing adjustment range: 1-5/8" (42mm)		
	Power supply: 110V (US and Canada)		
	Digital camera:		
	- True color 640x480 pixels (0.3MP)		
	- Frame speed: 30fps at 640x480		
	- Software compatible with Windows operating systems		
	- Offers capturing still images, stitching, EDF, video recording		
	and measurement functions		
	- USB2.0 cable included		
	Cleaning Pack:		
	- 100 4"x6" cotton lens cleaning sheets		
	> Brush length: 5-1/2" (13.5cm)		
	- 100ml of cleaning solution		
	- Cleaning cloth size: 5-7/8" x 6-3/4" (15 x 17cm)		
	Microscope book: "The World of The Microscope"		
1		•	i
	Dimension: 9" x 4-3/4" x 12" (23cm x 12cm x 30.5cm) Shipping package: 8 lb (4 kg)		

39.	Munsell Color Chart including manual	2 booklet	
	The Munsell Soil Color Charts is an affordable way to evaluate		
	the type of soil that is present within a given area. The book is		
	set up to allow users to make soil color evaluations in the field		
	quickly and easily. The soil classification system that has been		
	developed around the Munsell color system is an established		
	and accepted process to assign a soil type.	_	
40.	Water Analyzer Kit inc. reagents	2 set	
	The set is a chemical test kit that measures six parameters		
	common in water quality testing: alkalinity, chloride, hardness, iron, pH, and sulfite. This kit is equipped with all the necessary		
	reagents and equipment to perform over 100 tests for each		
	parameter, with the exception of iron, which includes reagents		
	for 50 tests. pH is obtained with pHep®, pH electronic tester,		
	which guarantees greater accuracy and a longer life than		
	traditional litmus paper.		
41.	Drying/Warming Cabinet	1 unit	
11,	Capacity: At least 100L	1 41111	
	Maximum temperature: 50°C above ambient		
	Easy-clean powder coated body		
	Thermostat control for set temperature		
	Toughened glass doors, sliding		
	Three shelves		
42.	UV Light Meter	4 unit	
,	Measurable of UVA & UVB		
	LSI-circuit use provides high reliability and durability		
	3 3/4 LCD display, maximum indication 3,999		
	Range: 0~40mW/cm ²		
	3 range: $400\mu W/cm^2$, $4,000\mu W/cm^2$, $40mW/cm^2$		
	UV sensor spectrum: 290~390nm		
	Accuracy: ±(4%FS+2 digit)		
	Sensor structure: The exclusive UV photo diode & UV color		
	correction filter.		
	Sampling Time: 0.5 second Operating Temperature: -10~40°C(14~104°F)		
	Operating Humidity: 0~70%Rh		
	Over-input: Indication of "OL".		
	Peak hold.		
43.	Water Activity Meter	1	
٦٥.	Working Temp:0-50°C	_	
	MeasurementAccuracy:		
	Temperature, ±0.5°C		
	Water Activity, ± 0.015 (@25°C)		
	Display: LCD		
	Configuration: Micro printer		
	Measurement time: 5-40 min		
44.	Electronic Titrator	1 unit	
77.	Volume range: 0.01mL-99.99mL, Max piston lift is 10mL,	_ int	
	resolution is 10μL		
	Volume accuracy: R=0.2% CV=0.07%		
	Velocity: 16 stages		
	Operating temperature range: 10°C~30°C		
	Quality control: DIN EN ISO 8655		
	Control type: External control, including the stirrer and the		
	burette program		
45.	Rice Transplanter	1 unit	
	4 rows; walk behind type		
	Equipped with hi-power advanced OHV gasoline engine, offers		
	efficient, low fuel consumption and yet powerful operations,		
	suitable to work even in harsh land condition.		
	Equipped with large fuel filler and 4liter fuel tank, enables		

	comfortable refueling.		
46.	Rice Reaper	1 unit	
40.	ENGINE TYPE: 4-Cycle, Air-Cooled	1 unit	
	ENGINE FUEL: Gasoline		
	NET WEIGHT (KG): 116		
	WORKING CAPACITY HR/HA(HR/ACRE): 3-4 (1, 2-1, 6)		
	OVERALL LENGTH (MM): 2390		
	OVERALL WIDTH (MM): 1470		
	HEIGHT (UP TO HANDLE) (MM): 900		
	CUTTING WIDTH (CM): 120		
47.	Rice Mill with complete accessories and power	1 unit	
47.	source(engine/motor)	1 dilit	
	HP: 4"X8"		
	CAPACITY (KG/HR): 600-650		
48.	Diesel Engine	1 unit	
10.	Brand new, 10Hp; single cylinder diesel engine. To be use for		
	instructional purposes		
49.	Gasoline Engine	1 unit	
	Brand new 5.5Hp; single cylinder gasoline engine. To be use		
	for instructional purposes		
50.	Waterprrof Portable Dissolved Oxygen & BOD	1 unit	
	Specifications		
	DO Range 0.00 to 50.00 ppm (mg/L); 0.0 to 600.0% saturation		
	DO Resolution 0.01 ppm (mg/L); 0.1% saturation		
	DO Accuracy ±1.5% of reading ±1 digit		
	DO Calibration automatic one or two point at 100% saturation		
	(8.26 mg/L) and 0% saturation (0 mg/L).		
	Atmospheric Pressure Range 450 to 850 mmHg Atmospheric Pressure Resolution 1 mmHg		
	Atmospheric Pressure Accuracy ± 3 mmHg within ±15% from		
	the calibration point		
	Atmospheric Pressure Calibration one point at any in range		
	pressure value		
	Temperature Range -20.0 to 120.0°C (-4.0 to 248.0°F)		
	Temperature Resolution 0.1°C (0.1°F)		
	Temperature Accuracy ± 0.2 °C; ± 0.4 °F (excluding probe error)		
	Temperature Calibration one or two point at any in range		
	temperature value		
	Temperature Compensation automatic from 0 to 50°C (32 to 122°F)		
	Measurement Modes direct DO; BOD (biochemical oxygen		
	demand); OUR (oxygen uptake rate); SOUR (specific oxygen		
	uptake rate)		
	Barometric Compensation automatic from 450 to 850 mmHg		
	Salinity Compenstaion automatic from 0 to 70 g/L		
	Electrode/Probe HI764073 polarographic DO probe with		
	protective sleeve, internal temperature sensor, DIN connector		
	and 4m (13') cable (included)		
	Log-on-demand up to 400 samples		
	PC Connectivity opto-isolated USB with optional HI 92000 software and micro USB cable		
	Battery Type/Life 1.5V AA batteries (4) / approximately 200		
	hours of continuous use without backlight (50 hours with		
	backlight)		
	Auto-off user selectable: 5, 10, 30, 60 min or can be disabled		
	Environment 0 to 50°C (32 to 122°F); RH 100% (IP67)		
	Dimensions 185 x 93 x 35.2 mm (7.3 x 3.6 x 1.4")		
	Weight 400 g (14.2 oz.)		
51.	COD Reactor	1 unit	
	Specifications:		
	Power supply, V / Hz 230 / 50-60 or		

	150 / 50-60 (selectable)		
	Power, W 550		
	Dimensions, L x W x H, mm 248 x 219 x 171		
	Weight, kg 3.9		
	Construction materials		
	Housing: ABS		
	Protection grid: PPS		
	Lid: PC		
	Block Insert: PBT		
	Heating Block: Aluminum		
	Holes in block 24 - 16.2 mm $\emptyset \pm 0.2$ mm		
	Selectable temperatures, °C 100 / 120 / 150		
	Probe type Pt100 A class		
	Temperature stability at the Pt100, $^{\circ}$ C ± 1		
	Selectable cycle times, min. 30 / 60 / 120 / continuous (∞)		
	Heating up time from 20°C to 150°C, min. 12		
	Thermoregulation Microprocessor		
	Protection against overheating, °C At the aluminum block for		
	190		
	Beeper, dB Maximum 88		
	Environmental conditions for operation		
	Temperature, °C 10 to 40		
	Humidity, % Maximum 85		
52.	Turbidity Meter	1 unit	
32.	Specifications:	Tanic	
	Measurement Method: ISO 7027 nephelometric method (90°)		
	Measurement Range: 0~1100 NTU/FNU, 0~275 EBC, 0~9999		
	ASBC		
	Resolution: 0.01 (0~100 NTU), 0.1 (100~999 NTU), 1		
	(999~1100 NTU)		
	Accuracy: ±2% (0~500 NTU), ±3% (501~1100 NTU)		
	Calibration Standards: 0.02, 10, 200, 500, 1000 NTU or User-		
	Defined		
	Light Source: Infrared-emitting diode (850 nm wavelength)		
	Detector: Silicon Photodiode		
	Stray Light: < 0.02 NTU		
	Sample Vials: 60(H)×25(Dia.)mm		
	Power Off: Manual or Automatic (15 minutes)		
	Memory: Stores up to 100 data sets		
	Output: USB Communication Interface		
	Operating Temperature: 0~60°C		
	Power Requirements: 1×9V Battery		
	Dimensions: 180(L)×85(W)×70(H)mm		
	Weight: 300g		

CONFORMITY WITH TECHNICAL SPECIFICATIONS

Item			REMARKS
No.	Section VII – Technical Specifications	Qty.	Comply Not Comply
1.	Trinocular Compound Microscope with Camera Specifications: > Total magnification: 40X-100X-250X-400X-1000X-2500X > Eyepieces: wide field WF10X and WF25X > Objective: achromatic DIN 4X, 10X, 40X(S), 100X(S, Oil) > Viewing head: 45°Inclined 360°swiveling trinocular > Sliding adjustable interpupillary distance: 2-3/16" ~ 2- 15/16"(55mm ~ 75mm) > Ocular diopter adjustable on both eyetubes > Nosepiece: revolving quadruple > Stage: mechanical double layer size: 4-1/2"x 4-15/16" (115mm x 125mm) > Stage x-y stroke (travel range): 2-13/16" x 1-3/16" (70mm x 30mm) > Condenser & diaphragm: NA1.25 Abbe condenser with iris diaphragm > Transmitted (lower) illuminator: LED light, intensity adjustable > Focus adjustment: Coaxial coarse & fine knobs on both sides > All metal mechanical components > Extensive slide preparation kit, cleaning kit and the World of the Microscope book included> 25-piece prepared slides, 100-piece blank glass slides with > 100-piece cover slips and 100-sheet lens cleaning paper included>Power supply: AC/DC adapter, 100V-240V (UL approved)Digital camera: True color 2592x1944 pixels (5MP)- Frame speed: 2fps at 2592x1944, 3fps at 2048x1536, 5fps at 1600x1200, 7.5fps at 1280x1024> Software compatible with Windows operating systems and Mac OS > Offers capturing still images, stitching, EDF, video recording and measurement functions> USB2.0 cable included> Dimension: 9-1/16" x 7-1/8" x 14-1/4" (23cm x 18cm x 36cm)>Package weight: 11 lbs (5 kg)	3 unit	
2.	Dissecting Microscope - Specifications: Total magnification: 20X, 40X, 80X Eyepieces: widefield WF10X/20 and WF20X Rotational objectives: 2X, 4X Head: 45°Inclined binocular with locked-in eyepieces Diopter adjustment on left ocular-tube Interpupillary distance: 2-3/16" ~ 2-15/16"(55mm ~ 75mm) Working distance: 2-1/4" (57mm) Field of view: 10mm/5mm LED cold illuminators: incident (upper) and transmitted (lower) Frosted glass stage plate: 3-3/4" (95mm) in diameter White/black plastic stage plate: 3-3/4" (95mm) in diameter Head vertical moving range (along the pillar): 2-3/4" (70mm) Focusing adjustment range: 1-5/8" (42mm) All metal mechanical components	8 unit	

3.	Full optical glass elements Power supply: Power adapter: 120V AC Battery: 3 AA batteries Digital camera: - True color 640x480 pixels (0.3MP) - Frame speed: 30fps at 640x480 - Software compatible with Windows operating systems and Mac OS - Offers capturing still images, stitching, EDF, video recording and measurement functions - USB2.0 cable included Dimension: 8-1/4"x 4-3/4" x 14-1/4" (21cm x 12cm x 36cm) Shipping package: 6 lb (3 kg) Water Testing Sensors & Modules	2 set	
	Consist of the ff: USB Module-1unit, RF Communication Module - 2units, Battery Module - 1unit, Digital Display module - 1 unit, Graphic Display Module - 1 unit, Oxygen Logger sensor - 1 unit, Temperature logger sensor - 1 unit, Conductivity logger sensor - 1 unit, pH logger sensor - 1 unit, Barometer logger sensor - 1 unit, Case for Neulog sensor kit - 1pc		
4.	Underwater Quantum Meter Specifications: Calibration Uncertainty: ±5 % Measurement Repeatability: Less than 1 % Long-term Drift (Non-stability): Less than 2 % per year Non-linearity: Less than 1 % (up to 3000μmol m-2 s-1) Response Time: Less than 1 ms Field of View: 180° Spectral Range: 410 to 655 nm (wavelengths where response is greater than 50% of maximum) Directional (Cosine) Response: ±5 % at 75° zenith angle Temperature Response: 0.06 ± 0.06 % per C Operating Environment: 0 to 50 C; less than 90 % non-condensing relative humidity up to 30 C; less than 70 % non-condensing relativity humidity from 30 to 50 C; separate sensors can be submerged in water up to depth of 30 m Meter Dimensions: 126 mm length, 70 mm width, 24 mm height Sensor Dimensions: 24 mm diameter, 28 mm height Mass: 180 g Cable: 2 m of shielded, twisted-pair wire; additional cable available; santoprene rubber jacket	1 unit	
5.	Tinocular Stereo Microscope Specifications: Total magnification: 3.5X-90X Head: 45°inclined 360°rotatable trinocular Eyepieces: 30mm widefield WF10X/20 and WF20X Objective: zoom 0.7X-4.5X Zoom ratio: 6.5:1 Auxiliary objective lens: 0.5X Separate photo-tube focus adjustment Beam split lever enables photo-tube or left eye-tube Interpupillary distance: adjustment 2-3/16" ~ 2-15/16"(55mm ~ 75mm) Diopter: adjustable on both ocular-tubes ±5dp	1 unit	

	Working distance: 6-1/2" (165mm) with 0.5X auxiliary lens and 3-3/4" (95mm) without 0.5X auxiliary lens Field of view: max 2-3/8" (60mm) with 0.5X auxiliary lens and max 1-1/8"(29mm) without 0.5X auxiliary lens Focus adjustment stroke: 2-3/8" (60mm) Incident (upper) illuminator: 12V/10W halogen with reflector, 90°adjustable inclined angle range Transmitted (lower) illuminator: 12V/10W halogen Each light has its own intensity control Main power on/off switch Mounting size of auxiliary lens and ring lights: 50mm female thread Plastic shell 54 LED with 100V-240V wide voltage range power adapter Glass stage plate: 3-3/4" (95mm) in diameter White/black plastic stage plate: 3-3/4" (95mm) in diameter Sturdy metal framework Power supply: 100V~240V, 50/60Hz (US and Canada Plug) Digital camera: - true color 4096x3288 pixels (14M pixels) - 0.5X reduction lens to get larger field of view - 0.01 mm calibration slide: 1mm/100 division - Frame speed: 1.8fps at 4096x3288, 10fps at 2048x1644, 27fps at 1024x822 - Software compatible with Windows, Mac OS X and Linux operating systems - Capturing microscope images, recording live video, measuring lengths, angles, areas, editing images - USB 2.0 cable included Dimension: 9 " x 6" x 17-1/2" (23cm x 16cm x 44cm) Shipping package: 20 lbs (9 kg)		
6.	Water Quality Meter Kit Specifications: pH range: 0.00 to 14.00pH ORP (mV) range: -999 to 999mV Chlorine (ppm) range: 0.01 to 10.00ppm Temperature range: 23° to 194°F (-5 to 90°C) Max Resolution: 0.01pH, 1mV, 0.01ppm, 0.1° Basic Accuracy: ±0.01pH, ±4mV, ±10% of reading ±0.01ppm; ±1.8°F/±1°C Memory: 15 readings Dimensions/ Weight: Meter: 1.4x6.8x1.6" (35.6x172.7x40.6mm)/ 3.85oz (110g)	3 unit	
7.	Hotplate Magnetic Stirrer, with connection for Electronic Contact-thermometer, 3ltr., 230V	2 unit	
8.	Plankton Net Plankton Sampler 153μm, includes carry case. A popular and versatile net. The anterior reducing cone makes filtration more efficient than a standard conical net. Consists of an anterior reducing cone; a posterior conical filtering net; and Dolphin TM adapter with Wisconsin bucket. A stainless steel net ring holds it open where the reducing cone and filter net meet. Bridle and bucket are stainless steel. Specifications: • Mouth diameter: 130 mm (5") • Ring diameter: 180 mm (7") • Includes matched Wisconsin bucket and adapter • Nets and Nitex® bucket strips available in 4 sizes.	2 unit	

		1	<u></u>
9.	Water Sampler, made of non-metallic materials like	2 unit	
	fiberglass, or PVC. Capacity is at least 1.5L. Supplied with		
	14m line.		
10.	Refractometer	4 unit	
	Specifications:		
	type: Salt (ATC)		
	ranges: 0 to 100ppt (10 to 30°C) 1.000 to 1.070 Specific		
	Gravity		
	resolution: 1ppt 0.001		
	accuracy: ±0.1% ±0.001		
11.	Digital Analytical Balance	1 unit	
11.	Specifications:	2 41110	
	Capacity: 200g		
	Resolution: 0.001g		
	Scale pan size: Ø90mm		
	Power: 12V/6V/1.2AH		
	With automatic external calibration weights, easy to operate,		
	standard weights.		
	Anti-overload protection and automatic fault tips		
	High-contrast, large LCD display, display backlit		
	A variety of unit conversion, easy to operate		
	AC-DC dual use, long standby time		
	The Be dual use, long standey time		
12.	Water Quality Starter Kit	1 unit	
12.	It measures six parameters common in water quality testing:	Tuint	
	alkalinity, chloride, hardness, iron, pH, and sulfite. This kit is		
	equipped with all the necessary reagents and equipment to		
	perform over 100 tests for each parameter, with the exception		
	of iron, which includes reagents for 50 tests. With Portable		
	carrying case for easy transport		
13.	Graphic Data Logger w/ advanced Water Quality Sensor	1 unit	
13.	Consist of the ff:	Tuint	
	USB module - 1, RF Communication module - 2		
	Battery module – 1, Digital display module – 1, Graphic		
	Display Module – 1, Oxygen logger sensor – 1, Temperature		
	logger sensor – 1, Conductivity logger sensor – 1, pH logger		
	sensor – 1, Barometer logger sensor – 1, Case for NeuLog		
	sensor $kit - 1$		
14.	Dektop Computer	15 unit	
	CPU: AMD A8-7600K 3.1/3.8Ghz 6-Core FM2+ Kaveri		
	Motherboard: MSI or Emaxx		
	RAM: Kingston DDR4 8GB		
	HDD: Seagate SATA 1TB		
	Monitor: 19" ACER/AOC LED		
	Keyboard: A4Tech PS/2		
	Mouse: A4Tech PS/2 Optical		
	Case: ATX AVR		
15.	2-in 1 Ink Tank System Printer	6 unit	
10.	WEIGHT 3.7 kg (3700g)	2 3	
	DIMENSION (CM) (L X W X H) 55 x 29 x 19 cm		
	PRINTER RESOLUTIONS Up to 1200 × 6000 dpi		
	CAPACITY 64 MB		
16.	Compound Microscope	8 unit	
10.	Specifications:	o unit	
	Total magnifications: 300X, 600X, and 1200X		
	Body Type: durable metal arm		
	Illumination: built-in LED light and reflecting mirror		
	Eyepiece: holder type single		
	Stage: 70 x 65mm		
	5m5c. 70 A 05mm	i	<u> </u>

	Slide holder: dual spring clips		
	Accessory set: 1 shrimp hatchery, 1 specimen slicer, 5		
	prepared slides, 7 blank slides, 1 petri dish, 7 slide cover, 1		
	plastic tweezer, 1 graduated cylinder, 1 spare bulb, 7 statical		
	slide covers, 7 slide labels, 1 plastic scalpel, 1 plastic spatula,		
	1 needle, 1 plastic stirring rod, 1 eosin, 1 gum media in a		
	bottle, 1 sea salt, 1 brine shrimp eggs, 2 collecting vials, 2 AA		
	batteries		
	Shipping weight: 5 lbs (2.5 kg)		
17.	Binocular Microscope	3 unit	
	Specifications:		
	Total magnification: 40X-64X-100X-160X-400X-640X-		
	1000X-1600X		
	Eyepieces: widefield WF10X and P16X		
	Objectives: achromatic DIN 4X, 10X, 40X(S), 100X(S, Oil)		
	Viewing head: 45°Inclined 360°swiveling binocular		
	Interpupillary distance: sliding adjustable 2-3/16" ~ 2-		
	15/16"(55~75mm)		
	Diopter: adjustable on both ocular eyetubes		
	Nosepiece: revolving quadruple		
	Stage: double layer X-Y mechanical stage with scales, size:		
	4-1/2"x 4-15/16" (115mm x 125mm), translation range: 2-		
	13/16" x 1-3/16" (70mm x 30mm)		
	Stage upward moving lock protects objectives and slides		
	Condenser: NA1.25 Abbe condenser with iris diaphragm		
	Illumination: transmitted (lower) LED light, intensity		
	adjustable		
	Focus: Coaxial coarse & fine knobs on both sides		
	Full solid metal frame construction with stain resistant		
	enamel finish		
	Power supply: AC/DC adapter, 100V-240V (UL approved)		
	Dimension: 9-1/16" x 7-1/8" x 13" (23cm x 18cm x 33cm)		
	Net weight: 7 lb 2 oz (3.25 kg)		
	Package weight: 9 lb (4 kg)		
	TT A . TE TT		
18.	Human Anatomy Model	1 unit	
18.		1 unit	
18.	85 cm, a unisex torso including 40 parts: torso, female breast	1 unit	
18.	85 cm, a unisex torso including 40 parts: torso, female breast plate, head, eyeball, brain (8 parts), vertebra spinal nerves (4	1 unit	
18.	85 cm, a unisex torso including 40 parts: torso, female breast plate, head, eyeball, brain (8 parts), vertebra spinal nerves (4 parts), lung (4 parts), heart (2 parts), trachea, esophagus and	1 unit	
18.	85 cm, a unisex torso including 40 parts: torso, female breast plate, head, eyeball, brain (8 parts), vertebra spinal nerves (4 parts), lung (4 parts), heart (2 parts), trachea, esophagus and descending aorta, diaphragm, liver, kidney, stomach (2 parts),	1 unit	
18.	85 cm, a unisex torso including 40 parts: torso, female breast plate, head, eyeball, brain (8 parts), vertebra spinal nerves (4 parts), lung (4 parts), heart (2 parts), trachea, esophagus and descending aorta, diaphragm, liver, kidney, stomach (2 parts), intestines (4 parts), male genitalia (4 parts), female genitalia	1 unit	
	85 cm, a unisex torso including 40 parts: torso, female breast plate, head, eyeball, brain (8 parts), vertebra spinal nerves (4 parts), lung (4 parts), heart (2 parts), trachea, esophagus and descending aorta, diaphragm, liver, kidney, stomach (2 parts), intestines (4 parts), male genitalia (4 parts), female genitalia with fetus (3 parts)		
18.	85 cm, a unisex torso including 40 parts: torso, female breast plate, head, eyeball, brain (8 parts), vertebra spinal nerves (4 parts), lung (4 parts), heart (2 parts), trachea, esophagus and descending aorta, diaphragm, liver, kidney, stomach (2 parts), intestines (4 parts), male genitalia (4 parts), female genitalia with fetus (3 parts) Human Torso Model (male & female)	1 unit	
	85 cm, a unisex torso including 40 parts: torso, female breast plate, head, eyeball, brain (8 parts), vertebra spinal nerves (4 parts), lung (4 parts), heart (2 parts), trachea, esophagus and descending aorta, diaphragm, liver, kidney, stomach (2 parts), intestines (4 parts), male genitalia (4 parts), female genitalia with fetus (3 parts) Human Torso Model (male & female) Between the trunk model is divided into 20: torso, head, eye,		
	85 cm, a unisex torso including 40 parts: torso, female breast plate, head, eyeball, brain (8 parts), vertebra spinal nerves (4 parts), lung (4 parts), heart (2 parts), trachea, esophagus and descending aorta, diaphragm, liver, kidney, stomach (2 parts), intestines (4 parts), male genitalia (4 parts), female genitalia with fetus (3 parts) Human Torso Model (male & female) Between the trunk model is divided into 20: torso, head, eye, brain, lung (2), (2) the heart, liver, gallbladder, kidney,		
	85 cm, a unisex torso including 40 parts: torso, female breast plate, head, eyeball, brain (8 parts), vertebra spinal nerves (4 parts), lung (4 parts), heart (2 parts), trachea, esophagus and descending aorta, diaphragm, liver, kidney, stomach (2 parts), intestines (4 parts), male genitalia (4 parts), female genitalia with fetus (3 parts) Human Torso Model (male & female) Between the trunk model is divided into 20: torso, head, eye,		
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	85 cm, a unisex torso including 40 parts: torso, female breast plate, head, eyeball, brain (8 parts), vertebra spinal nerves (4 parts), lung (4 parts), heart (2 parts), trachea, esophagus and descending aorta, diaphragm, liver, kidney, stomach (2 parts), intestines (4 parts), male genitalia (4 parts), female genitalia with fetus (3 parts) Human Torso Model (male & female) Between the trunk model is divided into 20: torso, head, eye, brain, lung (2), (2) the heart, liver, gallbladder, kidney, stomach (2 pieces), intestinal (2 pieces), the male reproductive organs (2), (2) the female reproductive organs and spinal cord. Size: 55 cm.		
	85 cm, a unisex torso including 40 parts: torso, female breast plate, head, eyeball, brain (8 parts), vertebra spinal nerves (4 parts), lung (4 parts), heart (2 parts), trachea, esophagus and descending aorta, diaphragm, liver, kidney, stomach (2 parts), intestines (4 parts), male genitalia (4 parts), female genitalia with fetus (3 parts) Human Torso Model (male & female) Between the trunk model is divided into 20: torso, head, eye, brain, lung (2), (2) the heart, liver, gallbladder, kidney, stomach (2 pieces), intestinal (2 pieces), the male reproductive organs (2), (2) the female reproductive organs		
19.	85 cm, a unisex torso including 40 parts: torso, female breast plate, head, eyeball, brain (8 parts), vertebra spinal nerves (4 parts), lung (4 parts), heart (2 parts), trachea, esophagus and descending aorta, diaphragm, liver, kidney, stomach (2 parts), intestines (4 parts), male genitalia (4 parts), female genitalia with fetus (3 parts) Human Torso Model (male & female) Between the trunk model is divided into 20: torso, head, eye, brain, lung (2), (2) the heart, liver, gallbladder, kidney, stomach (2 pieces), intestinal (2 pieces), the male reproductive organs (2), (2) the female reproductive organs and spinal cord. Size: 55 cm. Packing: 6 PCS/box, 63 * 47 * 51 cm, 21 KGS	1 unit	
	85 cm, a unisex torso including 40 parts: torso, female breast plate, head, eyeball, brain (8 parts), vertebra spinal nerves (4 parts), lung (4 parts), heart (2 parts), trachea, esophagus and descending aorta, diaphragm, liver, kidney, stomach (2 parts), intestines (4 parts), male genitalia (4 parts), female genitalia with fetus (3 parts) Human Torso Model (male & female) Between the trunk model is divided into 20: torso, head, eye, brain, lung (2), (2) the heart, liver, gallbladder, kidney, stomach (2 pieces), intestinal (2 pieces), the male reproductive organs (2), (2) the female reproductive organs and spinal cord. Size: 55 cm. Packing: 6 PCS/box, 63 * 47 * 51 cm, 21 KGS		
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19.	85 cm, a unisex torso including 40 parts: torso, female breast plate, head, eyeball, brain (8 parts), vertebra spinal nerves (4 parts), lung (4 parts), heart (2 parts), trachea, esophagus and descending aorta, diaphragm, liver, kidney, stomach (2 parts), intestines (4 parts), male genitalia (4 parts), female genitalia with fetus (3 parts) Human Torso Model (male & female) Between the trunk model is divided into 20: torso, head, eye, brain, lung (2), (2) the heart, liver, gallbladder, kidney, stomach (2 pieces), intestinal (2 pieces), the male reproductive organs (2), (2) the female reproductive organs and spinal cord. Size: 55 cm. Packing: 6 PCS/box, 63 * 47 * 51 cm, 21 KGS Electrolysis Apparatus Comprises a pair of Carbon electrodes, tapered at one end mounted at the base of clear transparent container through holed rubber stoppers, which are insulated from each other to prevent accidental short circuiting. The container has a pair of 4mm color coded sockets near the bottom for connections. Includes two graduated test tubes, 10ml each, held firmly in	1 unit	
20.	85 cm, a unisex torso including 40 parts: torso, female breast plate, head, eyeball, brain (8 parts), vertebra spinal nerves (4 parts), lung (4 parts), heart (2 parts), trachea, esophagus and descending aorta, diaphragm, liver, kidney, stomach (2 parts), intestines (4 parts), male genitalia (4 parts), female genitalia with fetus (3 parts) Human Torso Model (male & female) Between the trunk model is divided into 20: torso, head, eye, brain, lung (2), (2) the heart, liver, gallbladder, kidney, stomach (2 pieces), intestinal (2 pieces), the male reproductive organs (2), (2) the female reproductive organs and spinal cord. Size: 55 cm. Packing: 6 PCS/box, 63 * 47 * 51 cm, 21 KGS Electrolysis Apparatus Comprises a pair of Carbon electrodes, tapered at one end mounted at the base of clear transparent container through holed rubber stoppers, which are insulated from each other to prevent accidental short circuiting. The container has a pair of 4mm color coded sockets near the bottom for connections. Includes two graduated test tubes, 10ml each, held firmly in spring clips.	1 unit 4 set	
19.	85 cm, a unisex torso including 40 parts: torso, female breast plate, head, eyeball, brain (8 parts), vertebra spinal nerves (4 parts), lung (4 parts), heart (2 parts), trachea, esophagus and descending aorta, diaphragm, liver, kidney, stomach (2 parts), intestines (4 parts), male genitalia (4 parts), female genitalia with fetus (3 parts) Human Torso Model (male & female) Between the trunk model is divided into 20: torso, head, eye, brain, lung (2), (2) the heart, liver, gallbladder, kidney, stomach (2 pieces), intestinal (2 pieces), the male reproductive organs (2), (2) the female reproductive organs and spinal cord. Size: 55 cm. Packing: 6 PCS/box, 63 * 47 * 51 cm, 21 KGS Electrolysis Apparatus Comprises a pair of Carbon electrodes, tapered at one end mounted at the base of clear transparent container through holed rubber stoppers, which are insulated from each other to prevent accidental short circuiting. The container has a pair of 4mm color coded sockets near the bottom for connections. Includes two graduated test tubes, 10ml each, held firmly in spring clips. Spectroscope	1 unit	
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20.	85 cm, a unisex torso including 40 parts: torso, female breast plate, head, eyeball, brain (8 parts), vertebra spinal nerves (4 parts), lung (4 parts), heart (2 parts), trachea, esophagus and descending aorta, diaphragm, liver, kidney, stomach (2 parts), intestines (4 parts), male genitalia (4 parts), female genitalia with fetus (3 parts) Human Torso Model (male & female) Between the trunk model is divided into 20: torso, head, eye, brain, lung (2), (2) the heart, liver, gallbladder, kidney, stomach (2 pieces), intestinal (2 pieces), the male reproductive organs (2), (2) the female reproductive organs and spinal cord. Size: 55 cm. Packing: 6 PCS/box, 63 * 47 * 51 cm, 21 KGS Electrolysis Apparatus Comprises a pair of Carbon electrodes, tapered at one end mounted at the base of clear transparent container through holed rubber stoppers, which are insulated from each other to prevent accidental short circuiting. The container has a pair of 4mm color coded sockets near the bottom for connections. Includes two graduated test tubes, 10ml each, held firmly in spring clips. Spectroscope	1 unit 4 set	
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	Specifications:		
	Rotation speed: 20-260rpm		
	Rotation Speed Display: LCD		
	Titled Angel: 0-60°		
	Motor Power: 40W		
	Stroke Displacement: 150mm		
	Lifting: Manual		
	Temp. Range: Ambient - 180°		
	Bath Material: 304 SSL		
	Temp. Controller Display: LCD		
	Temp. Controller Mode: P.I.D.		
	Temp. Control Accuracy: ±1°C(Water), ±2°C (Oil)		
	Heating Power: 1300W		
	Bath Capacity: 5L		
	Bath Diameter: 250mm		
	Evaporation Volume: 50-3000mL		
	Condenser Type: Vertical		
	Cooling Surface cm2: 1200		
	Protection class: IP20		
	Ambient Temperature: 0°C to 4°C		
	Dimensions (L×W×H) Inch: 15×14×28		
	Weight (Lbs): 51		
	Voltage: 110V,60Hz/ 230V, 50Hz		
22		2 unit	
23.	Basic Hemocytometer	2 unit	
	consists of a thick glass microscope slide with a rectangular		
	indentation that creates a chamber		
24.	Optic Bench Used in optical experiments to support various	4 unit	
	optical components, the study of the law of lens imaging,		
	focus measurement, with a microscope, telescope, etc., for the		
	students to use. Can also be done in light of interference,		
	diffraction, polarization and other projection demonstration.		
	The light fixture seat is composed of a guide rail (including a		
	support, a guide rail length 1000mm), a sliding block, a scale		
	and an accessory.		
25.	Dynamic Trolley	1 set	
	consists of a rectangular body carried upon three low-friction		
	wheels and is supplied with one strong spring plunger and		
	three dowel pegs.		
26.	Basic Optic System	5 set	
	Accessories for the Optic Bench include: biconvex lens 2		
	blocks, convex lens		
	1 block, biconcave lens 1 block, "1" word screen 1 block, 1		
	piece of white screen, five bar, frosted glass screen (screen) 1		
	block, light source 1 set,a Candlestick, guide rail and the		
	datum plane of the parallelism error is not greater than 1.00		
27.	Boyle's Law Apparatus	6 set	
	The apparatus comprises a thick walled, wide-bore glass tube		
	mounted vertically in front of a scale graduated, with closed		
	end of the tube at the top and open bottom end secured tightly		
	on the thick-walled metal tube with O-ring to get leak-proof		
	joint.Other end of metal tube connected to a cylindrical oil		
	chamber filled with colored oil and capable of withstanding		
	high pressures.		
28.	Forensic Optical Comparator	1 set	
	Technical parameter as follows:		
1	Dual screen projections		
1	No image overlap		
	Dual 300-watt quartz projection lamps		
	Dual or simultaneous operation		
	Adjustable focusing platforms		
	Matched f/3. 5 objective lenses		
	materiou 1 / 5. 5 objective femous		

	Dual power magnification (6. 5x and 10x)		
	Sliding turret with pre-focused illumination		
	Four-inch internal cooling fan		
	Thermal cutoff of fan below 100 degree f		
	Aluminum / steel construction		
	Hardwood formica-covered base		
	Easy access relamping doors		
	Viewing screen 6 1 / 2" x 15"		
	Sliding ambient light shield Overall dimensions: 20 1 / 2" x 18" x20 1 / 2"		
	Overall difficusions, 20 1 / 2 × 18 × 20 1 / 2		
29.	Training & Experimentation System for Students (TESS) Advance Physics Basic Set Mechanics 1 & accessories Consist of the ff: Measuring tape, 1 = 2 m	1 set	
	Lid for TESS box, plastic 1		
	Digital stop watch, 24 h, 1/100 s & 1 s 1		
	Beaker, 100 ml, low form, plastic 1		
	Beaker, 250 ml, low form, plastic 1 Graduated cylinder, 50ml, plastic 1		
	Set of precision weights, 1g-50g 1		
	Pipette with rubber bulb 1		
	C		
	Support base variable 1 Support rod, stainless steel, 1 = 250 mm, d = 10 mm 1		
	Support rod, stainless steel, 1 230 mm, d 10 mm 1 Support rod with hole, stainless steel, 10 cm 2		
	Boss head 2		
	Fishing line, 1. 20m 1		
	Weight holder for slotted weights 2		
	Slotted weight, 10 g, black 4 Slotted weight, 50 g, black 3		
	Slotted weight, 50 g, black 3 Helical spring, 3 N/m 1		
	Helical spring, 20 N/m 1		
	Pulley, movable, dia.65mm, w. hook 1		
	Rod for pulley 1		
	Pulleys, double in line 2		
	Vernier calliper, plastic 1		
	Spring balance, transparent, 1 N 1 Spring balance, transparent, 2 N 1		
	Spring balance, transparent, 2 N 1 Spring balance holder 2		
	Aluminium column 1		
	Steel Column nickel-plated 1		
	Holding pin 1		
	Balance pan, plastic 2		
	Lever 1 Pointer for lever 1		
	Plate with scale 1		
	Pulley, movable, dia.40mm, w. hook 1		
	Steel pellets, $d = 2 \text{ mm}$, 120 g 1		
	Wood column 1		
	Glass tube holder with tape measure clamp 1 TESS advanced Mechanics ME 1 consumables for 10 Groups 1		
	TESS advanced Physics manual Mechanics 1 to 5 1 Software interTESS Physics, Mechanics, DVD 1		
30.	TESS Advance Physics Set Heat 1 & accessories	1 set	
	Consist of the ff:		
	Measuring tape, $l = 2 \text{ m}$ 1		
	TESS box, plastics, high, 305 x 425 x 150 mm 1		

	Lid for TESS box, plastic 1		
	Digital stop watch, 24 h, 1/100 s & 1 s 1		
	Wire gauze 160 mm x 160 mm, ceramic cen. 1		
	Beaker, 100 ml, low form, plastic 1		
	Erlenmeyer flask, wide neck, 250ml 1		
	Erlenmeyer flask, wide-neck, 100ml 1		
	Graduated cylinder 100 ml, PP transparent 1		
	Ring with boss head, i. d. = 10 cm 1		
	Universal clamp 1		
	Students thermometer, -10+110°C, 1 = 180 mm 1		
	Students thermometer, -10+110°C, 1 = 230 mm 1		
	Spoon, w. spatula end, 18 cm, plastic 1		
	Rubber stopper 26/32, 1 hole 7 mm 1		
	Rubber stopper 26/32, 2 holes 7 mm 1		
	Silicone tubing i.d. 7mm 2		
	Beaker, low, BORO.,3.3, 250ml 1 Beaker, low, BORO.,3.3, 400ml 1		
	Pipette with rubber bulb 1		
	Support base variable 1		
	Support rod, stainless steel, 1 = 250 mm, d = 10 mm 1		
	Boss head 2		
	Fishing line, 1. 20m 1		
	Thermometer, non-graduated 1		
	Lid for student calorimeter 1		
	Agitator rod 1		
	Felt sheet 100 mm x 100 mm 2		
	Heating coil with sockets 1		
	Glass tube holder with tape measure clamp 1		
	Connecting cord, 32 A, 500 mm, blue 2		
	TESS advanced Heat 1 necessary accessories for 1 group1		
	TESS advanced Heat 1 consumables for 10 groups 1		
	TESS advanced Physics manual Heat 1		
	Software interTESS Physics, Heat, DVD 1		
31.	Linear Air Track Kit w/ accessories	4 set	
	is a set of mechanical demonstration experiment, the time is		
	measured by digital timer, air cushion guide is used for small		
	gas source, and the products can be used in many kinds of		
	mechanical experiments such as average speed, acceleration		
	and elastic collision.		
32.	Digital Oscilloscope	1 unit	
	100MHz with lock screen feature inc. probes and all standard		
	accessories		
33.	Frequency Counters	1 unit	
	1Hz – 2.5GHz including connectors and other sets of		
	accessories, manual and extensions		
34.	Audio Frequency Generator with probes, connectors &	2 unit	
77.	other set	2 unit	
	output frequency of 10 Hz to 1 MHz. It has a sine waveform		
	that is >5 Vrms, and square waveform of >10 Vp-p. It also		
	has an external synchronization that has 3% frequency, and		
	weight is approx. 3.5kg.		
35.	TIG Machine	5 unit	
	Main Voltage(V): 220-415		
	Frequency(HZ): 50/60		
	Rated Input Capacity(KVA): 6.3		
	Power Facto: cosø0.93		
	Max No-load Voltage(V): 56		
1	Current Range(A): 20-250		

	Rated Duty Cycle: 85%		
	Insulation Class: B		
	Protection Degree: IP21S		
	Packing Dimension(cm): 50*30*36		
	Gross Weight(KG): 33.5		
	Standard Accessories:		
	1. 3.0m cable TIG torch welding with holder 1PC		
	2. 1.5m cable with electrode holder 1PC		
	3. 1.5m cable with earth clamp 1PC		
	4. hand-held shield with glass 1PC		
36.	Diesel Engine	1 unit	
	2L, surplus or second hand but in good working condition.		
	Engine only without transmission.		
27	Handheld Global Positioning Ssystem	2	
37.		3 unit	
	Features and Benefits:		
	• Automatic routing (turn by turn routing on roads): yes (with		
	optional mapping for detailed roads)		
	• Electronic compass: yes (tilt-compensated, 3-axis)		
	Touchscreen: yes		
	Barometric altimeter: yes		
	• Camera: no		
	Geocaching-friendly: yes (paperless)		
	Custom maps compatible: yes		
	Photo navigation (navigate to geotagged photos): yes		
	• Hunt/fish calendar: yes		
	• Sun and moon information: yes		
	• Tide tables: Yes (with optional Bluechart)		
	Area calculation: yes		
	• Custom POIs (ability to add additional points of interest):		
	yes		
	• Unit-to-unit transfer (shares data wirelessly with similar		
	units): yes (plus images and custom maps)		
	• Picture viewer: yes		
	• Garmin Connect TM compatible (online community where		
	you analyze, categorize and share data): yes		
	you analyze, categorize and share data). yes		
20	Stereo Microscope	4	
38.	Total magnification: 20X, 60X	4 unit	
	Eyepieces: wide field WF20X		
	Objectives: rotational 1X & 3X		
	Head: 45°Inclined binocular		
	Left ocular-tube diopter adjustment ±5dp		
	Interpupillary distance: 2-3/16" ~ 2-15/16" (55mm - 75mm)		
	Working distance: 2-1/4" (57mm)		
	Incident (upper) illuminator: 12V/10W tungsten		
	Transmitted (lower) illuminator: 12V/10W tungsten		
	Easy illumination mode switch: [upper] [off] [lower]		
	Adjustable focus knob tension		
	Frosted glass stage plate: 3-3/4" (95mm) in diameter		
	White/black plastic stage plate: 3-3/4" (95mm) in diameter		
	Head vertical moving range (along the pillar): 2-3/4" (70mm)		
	Focusing adjustment range: 1-5/8" (42mm)		
	Power supply: 110V (US and Canada)		
	Digital camera:		
	- True color 640x480 pixels (0.3MP)		
1	- Frame speed: 30fps at 640x480		
	- Software compatible with Windows operating systems		
	- Offers capturing still images, stitching, EDF, video		
	recording and measurement functions		
	- USB2.0 cable included		
	Cleaning Pack:		
1	Cicaming I ack.		

		1	
	- 100 4"x6" cotton lens cleaning sheets		
	> Brush length: 5-1/2" (13.5cm)		
	- 100ml of cleaning solution		
	- Cleaning cloth size: 5-7/8" x 6-3/4" (15 x 17cm)		
	Microscope book: "The World of The Microscope"		
	Dimension: 9" x 4-3/4" x 12" (23cm x 12cm x 30.5cm)		
	Shipping package: 8 lb (4 kg)		
39.	Munsell Color Chart including manual	2 booklet	
	The Munsell Soil Color Charts is an affordable way to		
	evaluate the type of soil that is present within a given area.		
	The book is set up to allow users to make soil color		
	evaluations in the field		
	quickly and easily. The soil classification system that has		
	been developed around the Munsell color system is an		
40	established and accepted process to assign a soil type.		
40.	Water Analyzer Kit inc. reagents	2 set	
	The set is a chemical test kit that measures six parameters		
	common in water quality testing: alkalinity, chloride,		
	hardness, iron, pH, and sulfite. This kit is equipped with all		
	the necessary reagents and equipment to perform over 100 tests for each parameter, with the exception of iron, which		
	includes reagents for 50 tests. pH is obtained with pHep®, pH		
	electronic tester, which guarantees greater accuracy and a		
	longer life than traditional litmus paper.		
41.	Drying/Warming Cabinet	1 unit	
71.	Capacity: At least 100L	1 dilit	
	Maximum temperature: 50°C above ambient		
	Easy-clean powder coated body		
	Thermostat control for set temperature		
	Toughened glass doors, sliding		
12	Three shelves	4 unit	
42.	Three shelves UV Light Meter	4 unit	
42.	Three shelves UV Light Meter Measurable of UVA & UVB	4 unit	
42.	Three shelves UV Light Meter Measurable of UVA & UVB LSI-circuit use provides high reliability and durability	4 unit	
42.	Three shelves UV Light Meter Measurable of UVA & UVB	4 unit	
42.	Three shelves UV Light Meter Measurable of UVA & UVB LSI-circuit use provides high reliability and durability 3 3/4 LCD display, maximum indication 3,999	4 unit	
42.	Three shelves UV Light Meter Measurable of UVA & UVB LSI-circuit use provides high reliability and durability 3 3/4 LCD display, maximum indication 3,999 Range: 0~40mW/cm²	4 unit	
42.	Three shelves UV Light Meter Measurable of UVA & UVB LSI-circuit use provides high reliability and durability 3 3/4 LCD display, maximum indication 3,999 Range: 0~40mW/cm² 3 range: 400μW/cm², 4,000μW/cm², 40mW/cm² UV sensor spectrum: 290~390nm Accuracy: ±(4%FS+2 digit)	4 unit	
42.	Three shelves UV Light Meter Measurable of UVA & UVB LSI-circuit use provides high reliability and durability 3 3/4 LCD display, maximum indication 3,999 Range: 0~40mW/cm² 3 range: 400μW/cm², 4,000μW/cm², 40mW/cm² UV sensor spectrum: 290~390nm Accuracy: ±(4%FS+2 digit) Sensor structure: The exclusive UV photo diode & UV color	4 unit	
42.	Three shelves UV Light Meter Measurable of UVA & UVB LSI-circuit use provides high reliability and durability 3 3/4 LCD display, maximum indication 3,999 Range: 0~40mW/cm² 3 range: 400μW/cm², 4,000μW/cm², 40mW/cm² UV sensor spectrum: 290~390nm Accuracy: ±(4%FS+2 digit) Sensor structure: The exclusive UV photo diode & UV color correction filter.	4 unit	
42.	Three shelves UV Light Meter Measurable of UVA & UVB LSI-circuit use provides high reliability and durability 3 3/4 LCD display, maximum indication 3,999 Range: 0~40mW/cm² 3 range: 400μW/cm², 4,000μW/cm², 40mW/cm² UV sensor spectrum: 290~390nm Accuracy: ±(4%FS+2 digit) Sensor structure: The exclusive UV photo diode & UV color correction filter. Sampling Time: 0.5 second	4 unit	
42.	Three shelves UV Light Meter Measurable of UVA & UVB LSI-circuit use provides high reliability and durability 3 3/4 LCD display, maximum indication 3,999 Range: 0~40mW/cm² 3 range: 400μW/cm², 4,000μW/cm², 40mW/cm² UV sensor spectrum: 290~390nm Accuracy: ±(4%FS+2 digit) Sensor structure: The exclusive UV photo diode & UV color correction filter. Sampling Time: 0.5 second Operating Temperature: -10~40°C(14~104°F)	4 unit	
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	Three shelves UV Light Meter Measurable of UVA & UVB LSI-circuit use provides high reliability and durability 3 3/4 LCD display, maximum indication 3,999 Range: 0~40mW/cm² 3 range: 400μW/cm², 4,000μW/cm², 40mW/cm² UV sensor spectrum: 290~390nm Accuracy: ±(4%FS+2 digit) Sensor structure: The exclusive UV photo diode & UV color correction filter. Sampling Time: 0.5 second Operating Temperature: -10~40°C(14~104°F) Operating Humidity: 0~70%Rh Over-input: Indication of "OL". Peak hold.		
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43.	Three shelves UV Light Meter Measurable of UVA & UVB LSI-circuit use provides high reliability and durability 3 3/4 LCD display, maximum indication 3,999 Range: 0~40mW/cm² 3 range: 400μW/cm², 4,000μW/cm², 40mW/cm² UV sensor spectrum: 290~390nm Accuracy: ±(4%FS+2 digit) Sensor structure: The exclusive UV photo diode & UV color correction filter. Sampling Time: 0.5 second Operating Temperature: -10~40°C(14~104°F) Operating Humidity: 0~70%Rh Over-input: Indication of "OL". Peak hold. Water Activity Meter Working Temp:0-50°C MeasurementAccuracy: Temperature , ±0.5°C Water Activity, ±0.015 (@25°C) Display: LCD Configuration: Micro printer Measurement time: 5-40 min Electronic Titrator Volume range: 0.01mL-99.99mL, Max piston lift is 10mL, resolution is 10μL Volume accuracy: R=0.2% CV=0.07% Velocity: 16 stages	1	
43.	Three shelves UV Light Meter Measurable of UVA & UVB LSI-circuit use provides high reliability and durability 3 3/4 LCD display, maximum indication 3,999 Range: 0~40mW/cm² 3 range: 400μW/cm², 4,000μW/cm², 40mW/cm² UV sensor spectrum: 290~390nm Accuracy: ±(4%FS+2 digit) Sensor structure: The exclusive UV photo diode & UV color correction filter. Sampling Time: 0.5 second Operating Temperature: -10~40°C(14~104°F) Operating Humidity: 0~70%Rh Over-input: Indication of "OL". Peak hold. Water Activity Meter Working Temp:0-50°C MeasurementAccuracy: Temperature, ±0.5°C Water Activity, ±0.015 (@25°C) Display: LCD Configuration: Micro printer Measurement time: 5-40 min Electronic Titrator Volume range: 0.01mL-99.99mL, Max piston lift is 10mL, resolution is 10μL Volume accuracy: R=0.2% CV=0.07%	1	

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	Control type: External control, including the stirrer and the		
	burette program		
45.	Rice Transplanter	1 unit	
	4 rows; walk behind type		
	Equipped with hi-power advanced OHV gasoline engine,		
	offers efficient, low fuel consumption and yet powerful		
	operations, suitable to work even in harsh land condition.		
	Equipped with large fuel filler and 4liter fuel tank, enables		
	comfortable refueling.		
46.	Rice Reaper	1 unit	
40.	ENGINE TYPE: 4-Cycle, Air-Cooled	1 unit	
	ENGINE FUEL: Gasoline		
	NET WEIGHT (KG): 116		
	WORKING CAPACITY HR/HA(HR/ACRE): 3-4 (1. 2-1. 6)		
	OVERALL LENGTH (MM): 2390		
	OVERALL WIDTH (MM): 1470		
	HEIGHT (UP TO HANDLE) (MM): 900		
	CUTTING WIDTH (CM): 120		
47.	Rice Mill with complete accessories and power	1 unit	
	source(engine/motor)		
	HP: 4"X8"		
	CAPACITY (KG/HR): 600-650		
48.	Diesel Engine	1 unit	
	Brand new, 10Hp; single cylinder diesel engine. To be use		
	for instructional purposes		
49.	Gasoline Engine	1 unit	
٦).	Brand new 5.5Hp; single cylinder gasoline engine. To be use	1 41110	
	for instructional purposes		
50.	Waterprrof Portable Dissolved Oxygen & BOD	1 unit	
50.	Specifications	1 unit	
	DO Range 0.00 to 50.00 ppm (mg/L); 0.0 to 600.0%		
	saturation		
	DO Resolution 0.01 ppm (mg/L); 0.1% saturation		
	DO Accuracy ±1.5% of reading ±1 digit		
	DO Calibration automatic one or two point at 100%		
	saturation (8.26 mg/L) and 0% saturation (0 mg/L).		
	Atmospheric Pressure Range 450 to 850 mmHg		
	Atmospheric Pressure Resolution 1 mmHg		
	Atmospheric Pressure Accuracy ± 3 mmHg within ±15%		
	from the calibration point		
	Atmospheric Pressure Calibration one point at any in range		
	pressure value		
	Temperature Range -20.0 to 120.0°C (-4.0 to 248.0°F)		
	Temperature Resolution 0.1°C (0.1°F)		
	Temperature Accuracy ±0.2°C; ±0.4°F (excluding probe		
	error)		
	Temperature Calibration one or two point at any in range		
	temperature value		
	Temperature Compensation automatic from 0 to 50°C (32 to		
	122°F)		
	Measurement Modes direct DO; BOD (biochemical oxygen		
	demand); OUR (oxygen uptake rate); SOUR (specific oxygen		
	uptake rate)		
	Barometric Compensation automatic from 450 to 850 mmHg		
	Salinity Compensation automatic from 0 to 70 g/L		
	Electrode/Probe HI764073 polarographic DO probe with		
	protective sleeve, internal temperature sensor, DIN connector		
	and 4m (13') cable (included)		
	Log-on-demand up to 400 samples		
	PC Connectivity opto-isolated USB with optional HI 92000		
	software and micro USB cable		
	software and inicio OSD capic		

		T	T
	Battery Type/Life 1.5V AA batteries (4) / approximately 200		
	hours of continuous use without backlight (50 hours with		
	backlight)		
	Auto-off user selectable: 5, 10, 30, 60 min or can be disabled		
	Environment 0 to 50°C (32 to 122°F); RH 100% (IP67)		
	Dimensions 185 x 93 x 35.2 mm (7.3 x 3.6 x 1.4")		
	Weight 400 g (14.2 oz.)		
51.	COD Reactor	1 unit	
	Specifications:		
	Power supply, V / Hz 230 / 50-60 or		
	150 / 50-60 (selectable)		
	Power, W 550		
	Dimensions, L x W x H, mm 248 x 219 x 171		
	Weight, kg 3.9		
	Construction materials		
	Housing: ABS		
	Protection grid: PPS		
	Lid: PC		
	Block Insert: PBT		
	Heating Block: Aluminum		
	Holes in block 24 - 16.2 mm $\emptyset \pm 0.2$ mm		
	Selectable temperatures, °C 100 / 120 / 150		
	Probe type Pt100 A class		
	Temperature stability at the Pt100, °C ±1		
	Selectable cycle times, min. $30/60/120/continuous(\infty)$		
	Heating up time from 20°C to 150°C, min. 12		
	Thermoregulation Microprocessor		
	Protection against overheating, °C At the aluminum block for		
	190		
	Beeper, dB Maximum 88		
	Environmental conditions for operation		
	Temperature, °C 10 to 40		
	Humidity, % Maximum 85		
52.	Turbidity Meter	1 unit	
32.	Specifications:	1 unit	
	Measurement Method: ISO 7027 nephelometric method (90°)		
	Measurement Range: 0~1100 NTU/FNU, 0~275 EBC,		
	0~9999 ASBC		
	Resolution: 0.01 (0~100 NTU), 0.1 (100~999 NTU), 1		
	(999~1100 NTU)		
	Accuracy: $\pm 2\%$ (0~500 NTU), $\pm 3\%$ (501~1100 NTU)		
	Calibration Standards: 0.02, 10, 200, 500, 1000 NTU or User-		
	Defined		
	Light Source: Infrared-emitting diode (850 nm wavelength)		
	Detector: Silicon Photodiode		
	Stray Light: < 0.02 NTU		
	Sample Vials: 60(H)×25(Dia.)mm		
	Power Off: Manual or Automatic (15 minutes)		
	Memory: Stores up to 100 data sets		
	Output: USB Communication Interface		
1	Operating Temperature: 0~60°C		
	Power Requirements: 1×9V Battery		
1	Dimensions: $180(L) \times 85(W) \times 70(H)$ mm		
	Weight: 300g		
	<u> </u>	1	1

Omnibus Sworn Statement

REPUBLIC OF THE PHILIPPINES)	
CITY/MUNICIPALITY OF)	S.S

AFFIDAVIT

I, [Name of Affiant], of legal age, [Civil Status], [Nationality], and residing at [Address of Affiant], after having been duly sworn in accordance with law, do hereby depose and state that:

1. Select one, delete the other:

If a sole proprietorship: I am the sole proprietor or authorized representative of [Name of Bidder] with office address at [address of Bidder];

If a partnership, corporation, cooperative, or joint venture: I am the duly authorized and designated representative of [Name of Bidder] with office address at [address of Bidder];

2. Select one, delete the other:

If a sole proprietorship: As the owner and sole proprietor, or authorized representative of [Name of Bidder], I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached duly notarized Special Power of Attorney;

If a partnership, corporation, cooperative, or joint venture: I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable;)];

- 3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board;
- 4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;
- 5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. Select one, delete the rest:

If a sole proprietorship: The owner or sole proprietor is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

If a partnership or cooperative: None of the officers and members of [Name of Bidder] is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

If a corporation or joint venture: None of the officers, directors, and controlling stockholders of [Name of Bidder] is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

- 7. [Name of Bidder] complies with existing labor laws and standards; and
- 8. [Name of Bidder] is aware of and has undertaken the following responsibilities as a Bidder:
 - a) Carefully examine all of the Bidding Documents;
 - b) Acknowledge all conditions, local or otherwise, affecting the implementation of the Contract;
 - Made an estimate of the facilities available and needed for the contract to be bid, if any; and
 - d) Inquire or secure Supplemental/Bid Bulletin(s) issued for the [Name of the Project].
- 9. [Name of Bidder] did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.

IN WITNESS	WHEREOF, I have	ve hereunto	set my	hand this _	_ day of _	, 20	at
, Ph	ilippines.						
		Bidde	er's Repre	esentative/Au	thorized Sig	gnatory	

SUBSCRIBED AND SWORN to before me this day of [month] [year] at [place of execution], Philippines. Affiant/s is/are personally known to me and was/were identified by me through competent evidence of identity as defined in the 2004 Rules on Notarial Practice (A.M. No. 02-8-13-SC). Affiant/s exhibited to me his/her [insert type of government identification card used], with his/her photograph and signature appearing thereon, with no and his/her Community Tax Certificate No issued on at
Witness my hand and seal this day of [month] [year].
NAME OF NOTARY PUBLIC Serial No. of Commission Notary Public for until Roll of Attorneys No PTR No [date issued], [place issued] IBP No [date issued], [place issued]
Doc. No Page No Book No Series of

REQUEST FOR CLARIFICATION

Date of Letter

MR. VICENTE G. HERNANDEZ BAC Chairperson Mindoro State College of Agriculture and Technology Alcate, Victoria, Oriental Mindoro
Dear Sir:
In relation to the Section of Page of the Bidding Documents for (Name of the Project), to wit:
" Quote unclear provision) "
We would appreciate it if you could provide further explanation or clarification on the above.
Thank you very much!
Very truly yours,
Name of Representative of the Bidder Name of the Bidder

Bill of Quantities

Name of Bidder	Invitation to Bi	d ² Number .	Page of .

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of	Quantity	Unit price EXW per	Transportation and	Sales and other	Cost of Incidental	Total Price,	Total Price delivered
	1	origin		item	Insurance and all	taxes payable if	Services, if applicable,	per unit	Final Destination
	1				other costs incidental	Contract is	per item	(col 5+6+7+8)	(col 9) x (col 4)
					to delivery, per item	awarded, per item			
	1								
	1								
	1								
	1								
	!								
	1								
	!								
	1								
	!								
	!								

[signature]	[in the capacity of]
Duly authorized to sign Bid for and on beha	ılf of

² If ADB, JICA and WB funded projects, use IFB.

Republic of the Philippines Mindoro State College of Agriculture and Technology Alcate, Victoria, Oriental Mindoro

Checklist Requirements

(Procurement of Goods)

Mindoro State College of Agriculture and Technology	Bidder:		
Requirements			
I. ELIGIBILITY AND TECHNICAL	Compliant	Non-	Remarks
DOCUMENTS		Compliant	
CLASS A Documents		T	1
1. PhilGEPS Certificate of Registration			
2. Registration Certificate from Securities and			
Exchange Commission (SEC), Department of			
Trade and Industry (DTI) for sole			
proprietorship, Cooperative Development			
Authority (CDA) for cooperatives;			
3. Mayor's Permit issued by the city or			
municipality where the principal place of			
business of the prospective bidder is located,			
or the equivalent document for Exclusive			
Economic Zones or Areas;			
4. Tax clearance per executive Order 398, Series			
of 2005, as finally reviewed and approved by			
the BIR;			
5. Statement of all on-going government and			
private contracts, including contracts awarded			
but not yet started; if any, whether similar or			
not similar in nature and complexity to the			
contract to be bid;			
6. Statement of bidders Single Largest			
Completed Contract (SLCC) similar to the			
contract to be bid within the period of three			
(3) years;			
7. Audited Financial Statements, showing the			
prospective bidder's total and current assets			
and liabilities, stamped "received" by the BIR			
or its duly accredited and authorized			
institutions, for the preceding calendar year,			
which should not be earlier than two (2) years			
from bid submission;			
8. Prospective Bidders computation of its Net			
Financial Contracting Capacity (NFCC); or			
Committed Line of Credit from a Universal or	-		
Commercial Bank;			

9. BIR Certificate of Registration (Form 2303)			
CLASS B Documents			
10. If applicable, the JVA in case the joint			
venture is already in existence, or duly			
notarized statements from all the potential			
joint venture partners stating that they will			
enter into and abide by the provisions of the			
JVA in the instance that the bid is successful.			
11. Bid Security			
1. [2% of the ABC] if bid security is in			
Cash, cashier's/managers check; bank			
draft/guarantee or irrevocable letter of			
credit; or			
2. [5% of ABC] if bid security is Surety			
Bond (it shall be accompanied by a			
certification by the Insurance Commission			
that the surety bond or insurance company			
is authorized to issue such instruments);			
or			
3. Bid Securing Declaration			
12. Conformity with Technical Specifications and			
Schedule of Requirements, as enumerated and			
specified in Sections VI and VII of the			
Bidding Documents;			
13. Omnibus Sworn Statement in accordance			
with Section 25.3 of the IRR of RA 9185 and			
using the prescribed form in Section VIII-			
Bidding Forms			
BAC ACTION (PASSED/FAILED)			
II. Financial Document	Compliant	Non-	Remarks
4 5: 15:15		Compliant	
1. Financial Bid Form			
2. Detailed Bid Price			
BAC ACTION (PASSED/FAILED)			