

## Technical Specifications

Item	Specification	Statement of Compliance
	<p><b>General terms for all lots</b></p> <p>For Equipment:</p> <p>1) The equipment must come from a credible manufacturer with support through a distributor in the country; and</p> <p>2) The equipment must be brand new and unused.</p>	<p><i>[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, 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 Bidder’s 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 applicable laws and issuances.]</i></p>

Item	Specification	Statement of Compliance
<p><b>LOT 1: 3D PRINTER PACKAGE (3D PRINTER AND 3D SCANNER, FILAMENTS AND ACCESSORIES)</b></p> <p><b>ABC: Php 2,000,000.00</b></p> <p>Delivery period: <b>Thirty to Ninety (30-90) calendar days</b></p> <p>Delivery and Installation: <b>CSM Dorm Annex, UP Mindanao, Mintal, Tugbok District, Davao City</b></p>		
	<p><b>3D PRINTER PACKAGE (3D PRINTER AND 3D SCANNER, FILAMENTS AND ACCESSORIES)</b></p> <p><b>ABC: Php 2,000,000.00</b></p>	
	<p><b>ITEM 1: One (1) Fused Deposition Modeling (FDM) type 3D Printer (For rapid prototyping output)</b></p>	
	<p><b>Technical Specifications:</b></p>	
	<ul style="list-style-type: none"> <li>● <b>Build Size:</b> (600 mm x 600 mm x 660 mm) or bigger</li> </ul>	
	<ul style="list-style-type: none"> <li>● <b>Resolution:</b> 0.1 mm to 0.5mm</li> </ul>	
	<ul style="list-style-type: none"> <li>● <b>Physical Features:</b> Fully enclosed print chamber</li> </ul>	
	<ul style="list-style-type: none"> <li>● <b>Filament Size:</b> 1.75 mm (Any filament from any vendor can be used)</li> </ul>	
	<ul style="list-style-type: none"> <li>● <b>Materials Supported:</b> PLA, ABS, PC, PVA, etc.</li> </ul>	
	<ul style="list-style-type: none"> <li>● <b>Print Speed:</b> 20mm/sec to 100 mm/sec *For 0.4mm nozzle</li> </ul>	
	<ul style="list-style-type: none"> <li>● <b>Extruder:</b> Dual extruder with one extruder compatible with PVA material for support Max. nozzle temperature supported up to 280°C</li> </ul>	

<ul style="list-style-type: none"> <li>● <b>Connectivity:</b> USB or SD with Wi-Fi web access for remote control from either mobile or UNIT allowing users to upload print files directly from the workstation.</li> </ul>	
<ul style="list-style-type: none"> <li>● <b>3D Printer Controller:</b> Preferably bigger touchscreen integrated with the controller (7 inches or higher)</li> </ul>	
<ul style="list-style-type: none"> <li>● <b>Additional Features:</b> Preferably with resume print &amp; sensor features ** (optional) with filament run-out sensor</li> </ul>	
<ul style="list-style-type: none"> <li>● <b>Package Inclusion:</b> <ul style="list-style-type: none"> <li>▪ Unit Compatible Slicing Software (Standard package that can accommodate common file formats used in 3d printing)</li> <li>▪ 10x 1kg Filament Spool PLA,</li> <li>▪ 10x 1kg Filament Spool ABS, and</li> <li>▪ 10x 1kg Filament Spool PVA (Preferably any filament brand supported)</li> <li>▪ sets of extra nozzle for 2 extruder</li> <li>▪ 1 x UPS (at least 3000VA)</li> </ul> </li> </ul>	
<ul style="list-style-type: none"> <li>● <b>Warranty:</b> At least 1 year warranty and local support guarantee</li> </ul>	
<b>ITEM 2: One (1) Stereolithography (SLA) type 3D Printer (for quality 3D printed output)</b>	
<b>Technical Specifications:</b>	
<ul style="list-style-type: none"> <li>● <b>Build Size:</b> (290 x 160 x 400 mm) (11.5 x 6.5 x 15.75) in or bigger</li> </ul>	
<ul style="list-style-type: none"> <li>● <b>Resolution:</b> XY 76 μm and Z 10 μm</li> </ul>	
<ul style="list-style-type: none"> <li>● <b>Physical Features:</b> Fully enclosed print chamber</li> </ul>	
<ul style="list-style-type: none"> <li>● <b>Materials Supported:</b> Standard Resin, ABS-like 3D Printer Resin, Rock-Black Stiff Resin, High Temp Resin etc. (Compatible with 3rd party resin)</li> </ul>	
<ul style="list-style-type: none"> <li>● <b>Print Speed:</b> 10mm/hr</li> </ul>	
<ul style="list-style-type: none"> <li>● <b>Optical Engine:</b> ParaLED optical engine or using more advanced technology</li> </ul>	
<ul style="list-style-type: none"> <li>● <b>Connectivity:</b> USB or SD card preferably with Wi-Fi web access for remote control</li> </ul>	
<ul style="list-style-type: none"> <li>● <b>Consumables:</b> 10 x 1kg Resin (Mixed)</li> </ul>	
<ul style="list-style-type: none"> <li>● <b>Additional Features:</b> Preferably with resume print &amp; sensor features</li> </ul>	
<ul style="list-style-type: none"> <li>● <b>Package Inclusion:</b> <ul style="list-style-type: none"> <li>▪ 1 Set Printing Kit (Gloves, Wiper/Scraper, Funnel)</li> <li>▪ 5 Regular Resin (1kg each Clear Resin)</li> <li>▪ 1 Unit UV Post Curing (wash &amp; cure)</li> <li>▪ 1 Unit Aluminum Resin Vat</li> <li>▪ 1 Unit Compatible Slicing Software</li> <li>▪ 1 x UPS (at least 3000VA)</li> </ul> </li> </ul>	
<ul style="list-style-type: none"> <li>● <b>Warranty:</b> At least 1 year warranty and local support guarantee</li> </ul>	
<b>ITEM 3: One (1) 3D Scanner</b>	
<b>Technical Specifications:</b>	
<ul style="list-style-type: none"> <li>● <b>Types of Technology:</b> Handheld light scanning technology (optional: with visual interface/display)</li> </ul>	

ABRAHAM Project 2 : MaBiDa PROJECT (Equipment)

	<ul style="list-style-type: none"> <li>● <b>Accuracy:</b> 0.01 mm to 0.1 mm</li> </ul>	
	<ul style="list-style-type: none"> <li>● <b>Scan Speed:</b> <ul style="list-style-type: none"> <li>▪ <b>Frame rate:</b> 20 to 30 fps (frame rate per second)</li> <li>▪ <b>Data Acquisition Speed:</b> 1.0 to 2.0 million points per second or better</li> </ul> </li> </ul>	
	<ul style="list-style-type: none"> <li>● <b>Field of View:</b> (86 mm x 115 mm) to (420 mm x 440 mm) ** small field of view ideal for capturing intricate design of small object</li> </ul>	
	<ul style="list-style-type: none"> <li>● <b>Light Source:</b> Preferably uses Blue light technology (Blue LED) ** compatible with human exposure</li> </ul>	
	<ul style="list-style-type: none"> <li>● <b>Output Formats:</b> Preferably can support .OBJ, STL, .JPG, and more</li> </ul>	
	<ul style="list-style-type: none"> <li>● <b>Package Inclusion:</b> <ul style="list-style-type: none"> <li>▪ 1x Calibration Board</li> <li>▪ 1x Software</li> <li>▪ 1x Carry Case</li> </ul> </li> </ul>	
	<ul style="list-style-type: none"> <li>● <b>Warranty:</b> At least 1 year warranty and local support guarantee</li> </ul>	
	<b>3D Package Inclusion (for all items):</b>	
	<ul style="list-style-type: none"> <li>● On-site/online training with certification for at least 6 pax</li> </ul>	
	<ul style="list-style-type: none"> <li>● Certificate of authority to sell / certificate of distributorship issued by the manufacturer</li> </ul>	
	<ul style="list-style-type: none"> <li>● Training certificate provided by the manufacturer that the trainer is certified</li> </ul>	
	<ul style="list-style-type: none"> <li>● Turntable (optional)</li> </ul>	
<b>LOT 2: DSLR CAMERA WITH UNDERWATER HOUSING AND ACCESSORIES</b>		<b>ABC: Php 175,000.00</b>
Delivery period: <b>Thirty to Sixty (30-60) calendar days</b>		
Delivery and Installation: <b>CSM Dorm Annex, UP Mindanao, Mintal, Tugbok District, Davao City</b>		
	<b>DSLR CAMERA WITH UNDERWATER HOUSING AND ACCESSORIES</b>	<b>ABC: Php 175,000.00</b>
	<b>Technical Specifications:</b>	
	<ul style="list-style-type: none"> <li>● <b>Lens kit:</b> EF-S 18-55mm f/4-5.6 IS STM lens or better</li> </ul>	
	<ul style="list-style-type: none"> <li>● <b>Sensor:</b> at least CMOS sensor (supporting Dual Pixel CMOS AF)</li> </ul>	
	<ul style="list-style-type: none"> <li>● <b>Photo:</b> at least 24.1 MP</li> </ul>	
	<ul style="list-style-type: none"> <li>● <b>Video:</b> at least 1080p resolution or higher</li> </ul>	
	<ul style="list-style-type: none"> <li>● <b>Storage:</b> SD, SDHC, SDXC (UHS Speed Class 1 compatible)</li> </ul>	
	<ul style="list-style-type: none"> <li>● <b>Underwater Housing:</b> <ul style="list-style-type: none"> <li>❖ <b>Depth Rating:</b> at least 200 ft (60m)</li> <li>❖ <b>Controls:</b> All important camera functions (controls are not provided for Diopter Adjustment Knob, Display Button, Wi-Fi Button, Depth-of-field Preview Button, and Flash Button)</li> <li>❖ <b>Arms and Clamps:</b> at least dual 5" arms and clamps</li> <li>❖ 1x Waterproof bulkhead cap</li> <li>❖ 1x Zoom gear</li> <li>❖ Front and Rear O-Rings</li> <li>❖ Dome port and Neoprene port cover</li> <li>❖ at least 1cc silicone lubricant tube</li> </ul> </li> </ul>	

ABRAHAM Project 2 : MaBiDa PROJECT (Equipment)

	<ul style="list-style-type: none"> <li>● <b>Strobes:</b></li> </ul>	
	<ul style="list-style-type: none"> <li>❖ <b>Depth rating:</b> at least 100 meters (330 feet)</li> </ul>	
	<ul style="list-style-type: none"> <li>❖ <b>Power:</b> at least 1 to 50 Ws</li> </ul>	
	<ul style="list-style-type: none"> <li>❖ 1x Waterproof bulkhead cap</li> </ul>	
	<ul style="list-style-type: none"> <li>❖ Ball mount and diffuser</li> </ul>	
	<ul style="list-style-type: none"> <li>❖ Battery</li> </ul>	
	<ul style="list-style-type: none"> <li>❖ at least 1cc silicone lubricant tube</li> </ul>	
	<b>Inclusions:</b>	
	a. Camera bag, camera strap	
	b. Battery pack with charger	
	c. <b>Storage:</b> at least 2 x 64 Gb micro SDXC cards	
	d. At least 1 year warranty	
<b>LOT 3: ONE (1) UNIT FLATBED SERVER</b>		<b>ABC: Php 400,000.00</b>
Delivery period: <b>Thirty to Sixty (30-60) calendar days</b>		
Delivery and Installation: <b>CSM Dorm Annex, UP Mindanao, Mintal, Tugbok District, Davao City</b>		
	<b>FLATBED SERVER (1 UNIT)</b>	<b>ABC: Php 400,000.00</b>
	<b>Technical Specifications:</b>	
	<ul style="list-style-type: none"> <li>● <b>Processor:</b> At least Intel Xeon Silver 4114 2.2G, 10C/20T, 9.6GT/s , 14M Cache, Turbo, HT (85W) DDR4 2400</li> </ul>	
	<ul style="list-style-type: none"> <li>● <b>Server Memory:</b> At least 64GB RDIMM (16GB x 4), 2666MT/s, Dual Rank (24 DIMM slots)</li> </ul>	
	<ul style="list-style-type: none"> <li>● <b>Network Controller :</b> At least Broadcom 5720 QP 1Gb Network Daughter Card</li> </ul>	
	<ul style="list-style-type: none"> <li>● <b>Storage Controller :</b> At least PERC H740P RAID Controller, 8GB NV Cache, Minicard</li> </ul>	
	<ul style="list-style-type: none"> <li>● <b>Hard Drive :</b> At least 1.2TB (600GB x 2) 10K RPM SAS 12Gbps 512n 2.5in Hot-plug Hard Drive (max 8 HDD)</li> </ul>	
	<ul style="list-style-type: none"> <li>● <b>Operating System:</b> Windows Server 2022 or better</li> </ul>	
	<ul style="list-style-type: none"> <li>● <b>Optical Drive:</b> At least Internal DVD+/- RW Drive</li> </ul>	
	<ul style="list-style-type: none"> <li>● <b>Power Supply :</b> At least Single, Hot-plug Power Supply (1+0), 750W</li> </ul>	
	<ul style="list-style-type: none"> <li>● <b>Management :</b> At least iDRAC9,Enterprise</li> </ul>	
	<ul style="list-style-type: none"> <li>● <b>Video Output :</b> At least VGA</li> </ul>	
	<ul style="list-style-type: none"> <li>● <b>Form Factor :</b> 2U Rack Server, with ReadyRails Sliding Rails With Cable Management Arm</li> </ul>	
	<b>Inclusions:</b>	
	a. At least 1Yr warranty and 3Yr After Sales Support	
	b. USB optical mouse (at least 2-button with scroll)	
	c. USB Keyboard	
<b>LOT 4: ONE (1) UNIT HIGH POWER COMPUTING DESKTOP WITH ACCESSORIES</b>		
<b>ABC: Php 350,000.00</b>		
Delivery period: <b>Thirty to Sixty (30-60) calendar days</b>		
Delivery and Installation: <b>CSM Dorm Annex, UP Mindanao, Mintal, Tugbok District, Davao City</b>		
	<b>HIGH POWER COMPUTING DESKTOP WITH ACCESSORIES (1 UNIT)</b>	<b>ABC: Php 350,000.00</b>

ABRAHAM Project 2 : MaBiDa PROJECT (Equipment)

	<b>Technical Specifications:</b>	
	<ul style="list-style-type: none"> <li>● <b>Operating System:</b> at least Windows 11 Pro 64 bit</li> <li>● <b>Processor:</b> at least i9-12900K or better</li> <li>● <b>Graphics:</b> at least RTX 3080Ti 12GB</li> <li>● <b>Display/Monitor (2 units):</b> at least 27" FHD IPS LED 165HZ dual screen configuration</li> <li>● <b>Memory:</b> at least 64GB DDR4-3200 RAM</li> <li>● <b>Storage:</b> at least 2TB M.2 PCIE SSD</li> <li>● <b>Connectivity:</b> Ethernet and Wi-Fi</li> <li>● <b>Power Supply:</b> at least 1200 Watts (Platinum)</li> <li>● <b>Fan/Cooler:</b> liquid CPU cooler w/ 3.5" LCD or better</li> </ul>	
	<b>Inclusions:</b>	
	a. <b>UPS</b> (at least 3000VA)	
	b. <b>Accessories:</b> ergonomic USB optical mouse w/ mousepad (at least 2 DPI buttons w/ scroll), ergonomic USB keyboard (preferably mechanical), headset w/ mic	
	c. <b>Office:</b> at least Office 2019	
	d. At least 1 year warranty	
<b>LOT 5: FOUR (4) LAPTOP COMPUTERS WITH ACCESSORIES</b>		<b>ABC: Php 480,000.00</b>
Delivery period: <b>Thirty to Sixty (30-60) calendar days</b>		
Delivery and Installation: <b>CSM Dorm Annex, UP Mindanao, Mintal, Tugbok District, Davao City</b>		
	<b>LAPTOP COMPUTERS WITH ACCESSORIES (4 UNITS)</b>	<b>ABC: Php 480,000.00</b>
	<b>Technical Specifications:</b>	
	<ul style="list-style-type: none"> <li>● <b>Operating System:</b> at least Windows 11 64 bit</li> <li>● <b>Processor:</b> at least i7-12700H or better</li> <li>● <b>Graphics:</b> at least RTX 3060 6GB</li> <li>● <b>Display:</b> at least 15.6" 300HZ</li> <li>● <b>Memory:</b> at least 32GB DDR4-3200 RAM</li> <li>● <b>Storage:</b> at least 1TB PCIE SSD</li> <li>● <b>Connectivity:</b> Ethernet and Wi-Fi</li> </ul>	
	<b>Inclusions:</b>	
	a. <b>Accessories:</b> bag, optical mouse (at least 2-button with scroll) w/ mousepad, laptop cooler	
	b. <b>Office:</b> at least Office 2019	
	c. <b>Monitor and HDMI cable</b> ( <i>extension for dual screen configuration</i> ): at least 23.8" FHD IPS LED (1 set per unit)	
	d. At least 1 year warranty	