

## SUPPLEMENTAL/BID BULLETIN

### BID BULLETIN NO. 3

9 August 2024

Name of Project: **Procurement of Learning Equipment and Systems for FY 2023  
 Regional TVET Innovation Centers (RTICS)**

Pursuant to Section 22.5 of the Revised Implementing Rules and Regulations of Republic Act No. 9184, this Bid Bulletin No. 3 is being issued to further clarify the provisions in the Bidding Documents with reference to the queries/concerns raised by the bidders.

#### 1. On the cost of the Bidding Documents

Lot No.	ABC (in Philippine Peso)	Cost of Bidding Documents (in Philippine Peso)	
		ORIGINAL	AMENDED
12	25,446,952.13	5,000.00	25,000.00
16	865,325.90	5,000.00	1,000.00

#### 2. On the change in the delivery period

- No changes in the delivery period shall be made since it may hamper the delivery of services by the Regional TVET Innovation Centers (RTICs) to their stakeholders. The winning bidder has to deliver the goods within one hundred twenty (120) calendar days from receipt of the Notice to Proceed.

#### 3. On the delivery address and test procedure of items

- All items shall be delivered and tested directly to the RTICs delivery address (see Section VI, Annex B: Delivery Address per RTIC).

#### 4. On the training requirements and arrangements per lot

- There are two levels of training. Refer to Section VI, C: Training Requirements and Arrangements.

#### 5. On the eligibility of bidders

- Refer to ITB No 5 Eligible Bidders. 5.2 Foreign ownership is not allowed to participate in this project. However, the 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 No. 5183

**6. On the eligibility of bidders**

**Lot 1: Robotics**

Item No. and Name/Agency Specification	Infinite PowerTech	TESDA response
<p><b>01-001: Collaborative Robot</b></p>		
<ul style="list-style-type: none"> <li>• Overall size should not be greater than 2m (width) x 3m (height) to ensure that ingress of the machine will not be an issue</li> <li>• Material: Aluminum (top plate/inside/side)</li> <li>• Power: 100-240 VAC, 47-63 Hz</li> </ul>	<p>The device mainly completes industrial action processes such as assembly, vision, gluing, palletizing, quick change, grinding, welding, deburring, and warehousing for industrial robot applications. The device adopts a modular design concept and is equipped with PPN gas and grid interfaces to achieve complete independence of mechanical, electrical, network, and pneumatic interface modules. Apply Siemens safety PLC system, configure emergency stop and safety grating to achieve industrial-grade safety level. According to the training and assessment content, different modules can be quickly replaced to achieve practical training and assessment of different difficulties and different knowledge points</p>	<p>The agency specification shall remain the same. However the bidders may offer higher technical specifications, considering that the agency specifications are minimum in nature.</p>

### Lot 3: Mechatronics

Item No. and Name/Agency Specification	Infinite PowerTech	TESDA response
<b>03-001: Programmable Logic Circuit Module 48MR</b>		
<p>Number Inputs: 24            Output type: Relay            Supply Voltage: 100 -&gt; 240 VAC            Input Type: Sink/Source            Number of Outputs: 24            Depth: 86mm            Length: 182mm            Width: 90mm            Program Capacity: 64000 Steps            Minimum Operating Temperature: 0 degree Celcius            Programming Interface: Computer, HMI            Programming Language Used: Ladder Logic            Output Current: 8A            Mounting Type: DIN Rail            Maximum Operating Temperature: +50 degrees Celcius            Includes TIA portal or GX Works 3 programming software</p>	<p>This system is based on a comprehensive training system for industrial flexible production line manufacturing systems. The content covers automatic control application technologies such as industrial lighting, mechanical and electrical integration. It conducts real-time data exchange through the host computer WINCC configuration software and integrates all unit platforms in the system. It forms an integrated industrial control network with the actuator, and the hardware supports 485, MODBUS, and PROFINET network communication methods.</p>	<p>The agency specification shall remain the same. However the bidders may offer higher technical specifications, considering that the agency specifications are minimum in nature.</p>
<b>03-002: Programmable Logic Circuit Module 80MR</b>		
<p>Number Inputs: 40            Output type: Relay            Supply Voltage: 100 -&gt; 240 VAC            Input Type: Sink/Source            Number of Outputs: 40            Depth: 86mm            Length: 285mm            Width: 90mm            Program Capacity: 64000 Steps            Minimum Operating Temperature: 0 degree Celcius            Programming Interface: Computer, HMI            Programming Language Used: Ladder Logic            Output Current: 8A</p>	<p>This system is based on a comprehensive training system for industrial flexible production line manufacturing systems. The content covers automatic control application technologies such as industrial lighting, mechanical and electrical integration. It conducts real-time data exchange through the host computer WINCC configuration software and integrates all unit platforms in the system. It forms an integrated industrial control network with the actuator, and the hardware supports 485, MODBUS, and PROFINET</p>	<p>The agency specification shall remain the same. However the bidders may offer higher technical specifications, considering that the agency specifications are minimum in nature.</p>

Item No. and Name/Agency Specification	Infinite PowerTech	TESDA response
Mounting Type: DIN Rail Maximum Operating Temperature: +50 degrees Celcius Includes TIA portal or GX Works 3 programming software	network communication methods.	
<b>03-003: Human Machine Interface</b>		
<ul style="list-style-type: none"> <li>● 7 inch display / TFT Display</li> <li>● 800X480 pixels resolution</li> <li>● Color display</li> <li>● 3 number of ports</li> <li>● Port Type: Ethernet, MPI, Profibus DP, USB</li> <li>● Processor Type: ARM</li> <li>● With backlight</li> <li>● Supply voltage: 24VDC</li> <li>● Dimension: 214x158x63mm</li> <li>● IP Rating: IP20, IP65</li> <li>● Configurable from WINCC COMFORT V11</li> </ul>	This system is based on a comprehensive training system for industrial flexible production line manufacturing systems. The content covers automatic control application technologies such as industrial lighting, mechanical and electrical integration. It conducts real-time data exchange through the host computer WINCC configuration software and integrates all unit platforms in the system. It forms an integrated industrial control network with the actuator, and the hardware supports 485, MODBUS, and PROFINET network communication methods.	<p>The agency specification shall remain the same. However the bidders may offer higher technical specifications, considering that the agency specifications are minimum in nature.</p> <p>The agency specification shall remain the same. However the bidders may offer higher technical specifications, considering that the agency specifications are minimum in nature.</p>
<b>03-004: Variable Frequency Drive</b>		
<ul style="list-style-type: none"> <li>● Power rating 2.2KW</li> <li>● Single phase</li> <li>● Current rating 11 AMP</li> <li>● Supply voltage 220-240 VAC</li> <li>● Output frequency 0-550HZ</li> <li>● fieldbus communication type : Modbus</li> <li>● With control panel</li> <li>● Mounting type: wall mounting</li> <li>● With accessories: Smart access module</li> </ul>		

Item No. and Name/Agency Specification	Infinite PowerTech	TESDA response
<b>03-005: Actuator</b>		
Pneumatic double acting cylinder Piston Diameter: 20mm Stroke length: Maximum 100 mm Cushioning: P flexible cushioning ring/pads on both sides Position sensing: For proximity sensor ISO 6432 Accessories: -Reed switch -5/2 Way Double Solenoid Valve -5/2 Way Single Solenoid Valve -Filter Regulator Lubricator Pneumatic	This system is based on a comprehensive training system for industrial flexible production line manufacturing systems. The content covers automatic control application technologies such as industrial lighting, mechanical and electrical integration. It conducts real-time data exchange through the host computer WINCC configuration software and integrates all unit platforms in the system. It forms an integrated industrial control network with the actuator, and the hardware supports 485, MODBUS, and PROFINET network communication methods.	The agency specification shall remain the same. However the bidders may offer higher technical specifications, considering that the agency specifications are minimum in nature.

### Lot 7: Electrical and Electronics Technology

Item No. and Name	Infinite PowerTech	TESDA response
<b>07-001: Electronics Package</b>	The teaching content of this device includes circuit models and circuit laws, electrical engineering, basic electrical instrumentation, circuit theorem, energy storage components, analysis of first-order circuits and second-order circuits, frequency response of circuits and three-phase circuits, etc. It is suitable for basic electrical engineering, circuit analysis, electrical engineering and other basic professional courses.	The agency specification shall remain the same. However the bidders may offer higher technical specifications, considering that the agency specifications are minimum in nature.
<b>07-002: AC/DC Electrical Training</b>		
<b>07-003: Basic Electrical Machines</b>		
<b>07-004: Electrical Control Training</b>		
<b>07-005: Internet of Things</b>		
<b>07-006: Motor Control Trainer</b>		

## Lot 8: Mechatronics

Item No. and Name	Infinite PowerTech	TESDA response
<b>08-001: Alternative Energy Learning System</b>		
Three phase rectifier bridge module DC load module	This device is suitable for experimental teaching and training, and is mainly used for performance testing and control of solar photovoltaic power generation systems. The main functions include: photoelectric conversion characteristics test, electrical characteristics detection, control characteristics experiment, optical and electrical parameter measurement, load characteristic experiment, environmental adaptability experiment and online monitoring experiment.	The agency specification shall remain the same. However the bidders may offer higher technical specifications, considering that the agency specifications are minimum in nature.

## Lot 9: Welding

Item No. and Name	Infinite PowerTech	TESDA response
<b>09-001: Augmented Reality Welding System</b>	This product enables students to conduct in a highly simulated simulation environment. Efficient training of welding skills enables trainers to feel the real welding process. The product can effectively interact with the surrounding real environment, make the trainer in a highly realistic environment, and effectively promote the operator to fully participate in the current task. Welding training simulation technology is applicable to the training of new generation of welding personnel and welding employment education. Training can be carried out in general training classrooms. For experienced trainers, this product system provides a high training platform to operate and complete a good weld through	The agency specification shall remain the same. However the bidders may offer higher technical specifications, considering that the agency specifications are minimum in nature.
<b>09-002: Advanced Process Welding Machine</b>		
<b>09-003: Sheet Metal Bending Machine</b>		

Item No. and Name	Infinite PowerTech	TESDA response
	<p>vision, hearing and touch; Moreover, this product can accurately measure the operation information, and the trainer can learn the key points from it, and can easily and effectively transform these welding skills into the actual welding work Function diagram of km-c-360 virtual welding simulation system.</p>	

### Lot 10: CNC Machines

Item No. and Name	Infinite PowerTech	TESDA response
<p><b>10-001: CNC Lathe Comprehensive Training Equipment</b></p>	<p>This system is based on the characteristics of CNC machine tool maintenance technology in the electromechanical industry, combined with the skill appraisal requirements of CNC machine tool assembly, adjustment and maintenance workers, to conduct research on CNC machine tool electrical control and mechanical transmission, and is specially designed for practical training and teaching activities, including CNC system application, PLC control, frequency conversion speed control, sensor detection, servo drive control, low-voltage electrical control, mechanical transmission and other technologies have strengthened the students' comprehensive abilities in the installation, wiring, debugging, fault diagnosis and maintenance of CNC machine tools. Teaching and training in mechanical and electrical related majors</p>	<p>The agency specification shall remain the same. However the bidders may offer higher technical specifications, considering that the agency specifications are minimum in nature.</p>

**Lot 12: 3D Printing Technology**

Item No. and Name/Agency Specification	Gabi group	Digital Manufacturing Solutions	Noblevision Services Inc.	A.G. Datacom Phils., Inc.	TESDA response
<b>12-001: Metal 3D Printer</b>					
Print technology: Metal Fused Filament Fabrication (MFFF) with capability to print metal materials and ceramic release	Print Technology: MFFF (Metal Fused Filament Fabrication) and/or similar Metal 3D printing technology	Directed Energy Deposition (DED)			Print Technology: MFFF (Metal Fused Filament Fabrication) and/or similar Metal 3D printing technology
Build volume: at least 300 x 210 x 180 mm	Build Volume: at least 300x200x200mm				Build volume: at least 300 x 200 x 180mm
Material Compatibility: Compatible with stainless steel, Tool Steel, High Purity Copper (99.8%), Inconel, Ceramic release		Compatible Wire Materials: - Stainless Steels, Mild Steels,, Carbon Steel, Titanium Alloys, Nickel Alloys			Material Compatibility: Compatible with stainless steel, Tool Steel, High Purity Copper (99.8%), Inconel, Ceramic release
Print Head: Dual Extrusion Print head Two nozzles — Metal material and release material		Process Control: Closed-loop, laser and wire modulation			Print Head: Dual Extrusion Print head Two nozzles — Metal material and release material
Nozzle diameter: 0.4mm	Nozzle diameter: 0.4mm and 0.25mm	Wire Feedstock Diameter: at least 0.8 - 1.2 mm			Nozzle diameter: 0.4mm and 0.25mm



Item No. and Name/Agency Specification	Gabigroup	Digital Manufacturing Solutions	Noblevision Services Inc.	A.G. Datacom Phils., Inc.	TESDA response
		Wire FeedstockSpool: BS300			
Certification: ISO/IEC 27001				Request Certification: ISO/IEC 27001 or CE / FCC	Certification: CE/FCC
Heated bed: must be able to reach at least 100 degree celsius or higher	Heated bed: Vacuum enabled print bed must be able to reach at least 70 degree celsius or higher				Heated bed: Vacuum enabled print bed must be able to reach at least 70 degree celsius or higher
Connectivity: Wifi, Ethernet, LAN, USB Drive Connectivity	May I request to relax the Connectivity to Wifi, Lan or SD	Interface: USB, ethernet, wireless datalink		Connectivity: Wifi, LAN or SD	The request is denied.  The connectivity specification remains the same.
Power Requirements: 110-240VAC, 60Hz, Single-phase		Laser Type: 6 x 200 W direct diode lasers Laser Wavelength: at least 970 nm Total Laser Power: 1200 W			The power requirement on the Agency Specification specifies the voltage input rating of the equipment and not the power rating in watts.  Therefore, the power requirements remain

Item No. and Name/Agency Specification	Gabigroup	Digital Manufacturing Solutions	Noblevision Services Inc.	A.G. Datacom Phils., Inc.	TESDA response
					the same.
<p>Includes separate unit of Laboratory Sintering Furnace capable of reaching at least 1300C and is carbon free retort</p> <ul style="list-style-type: none"> <li>o Size Capacity: 140mm ID x 300mm L and can accommodate batch processing</li> </ul>	<p>Includes separate unit of Laboratory Sintering Furnace capable of reaching at least 1400C and is high purity retort with stacking graphite rings</p>	<p>Enclosure: Laser-safe, sealed, controlled atmosphere</p> <p>Cooling: Active water-cooled chiller included</p>			<p>Includes separate unit of Laboratory Sintering Furnace capable of reaching at least 1300C and is carbon free retort</p> <ul style="list-style-type: none"> <li>o Size Capacity at least : 140mm ID x 300mm L and can accommodate batch processing</li> </ul>
<p>Includes separate unit of debinding station using Oxalic Acid Fluid or equivalent with work envelope of At least 300 x 200 x 200 mm</p>	<p>Machine to be delivered must run only on a 2-step Metal 3D printing process. Specifically, a Metal 3D Printing step and a Sintering step.</p>	<p>Print Envelope (WxDxH): at least 145 x 165 x 390 mm</p>			<p>If the 3d metal printing machine offered by the bidder does not require debinding station, this specification shall be required. Therefore, it shall be removed from the agency specification.</p>
<p>Safety Management must include High vapor shut off and Low fluid level shut off</p>	<p>Remove</p>				<p>If the 3d metal printing machine offered by the bidder does not require debinding station, this</p>

Item No. and Name/Agency Specification	Gabigroup	Digital Manufacturing Solutions	Noblevision Services Inc.	A.G. Datacom Phils., Inc.	TESDA response
					specification shall be required. Therefore, it shall be removed from the agency specification.
Wash fluid must be locally available - Open source non-proprietary	Remove				If the 3d metal printing machine offered by the bidder does not require debinding station, this specification shall be required. Therefore, it shall be removed from the agency specification.
Metal 3D printer, debinding station and sintering furnace should be the same brand and can be operated using one software for compatibility	Metal 3D Printer and sintering furnace should be the same brand and can be operated using one software for compatibility				If the 3d metal printing machine offered by the bidder does not require debinding station, this specification shall be required. Therefore, it shall be removed from the agency specification.
Additional requirements: ● Certificate of authority to sell from the manufacturer or local distributor/reseller		Certificate of authority to sell from the manufacturer. Training certificate provided by			The additional requirements shall remain the same.

Item No. and Name/Agency Specification	Gabigroup	Digital Manufacturing Solutions	Noblevision Services Inc.	A.G. Datacom Phils., Inc.	TESDA response
<ul style="list-style-type: none"> <li>● Certificate of End of Life (EOL) Service from the Manufacturer and/or Supplier for 5 years</li> <li>● Proof of certified trainer issued by the manufacturer</li> </ul>		<p>manufacturer to certified trainer. After-Sales Support certificate issued by the manufacturer. Parts Availability certificate issued by the manufacturer. Certification for On-Site Training and Installation issued by the supplier</p>			
<p>Package inclusion:</p> <ul style="list-style-type: none"> <li>● 1 unit debinder</li> <li>● 1 unit sintering furnace</li> <li>● 1 spool each metal material - stainless steel and tool steel</li> <li>● 1 set of external exhaust and gas handling for furnace</li> <li>● 1 set of gas and fluid</li> </ul>	<p>1 unit Metal 3d printer 1 unit sintering furnace 1 spool each metal material – stainless steel and tool steel 1 set of external exhaust and gas handling for furnace 1 set of gas and fluid</p>	<p>- Licensed 3D Slicing Software Standard Accessories: - Dual Wire, Hot Wire, Laser Calibration System - Starter Kit, Control Unit, Chiller</p>	<p>3D printer accessory equipment still need powder sieving machine, vacuum cleaner, sand blasting machine, but not mentioned</p>		<p>Package Inclusion:</p> <p>Includes all accessories, and set of consumables, depending on the 3d metal printing machine requirements to ensure the machine operability.</p> <p>Depending on the print technology offered, the package may include, debinding, sintering machine, vacuum, sand blasting machine, etc.</p>

Item No. and Name/Agency Specification	Gabigroup	Digital Manufacturing Solutions	Noblevision Services Inc.	A.G. Datacom Phils., Inc.	TESDA response
			What scenarios are used?		Refer to Section VI.C. Training Requirements and Arrangements
			Is it possible we provide similar product		The offer shall be equivalent to the agency specifications, if not better specification or high functionality.
<b>12-002: Fused Deposition Modeling 3D Printer</b>					
<p>Nozzle temperature: At least 260 degree celsius          Printing size: At least 200 x 200 x 250 mm or larger          Maximum print speed: 250mm/s          Leveling: Auto Leveling          Extruder: Single; Nozzle size 0.4mm          Motherboard: 32bit silent motherboard or equivalent</p>	<p>The specifications listed here are quite low and items to be supplied to the agency might be substandard 3D printers that will need assembly and inconsistent calibration might be delivered. Since the budget is sufficient and equipment is to be delivered to regional proponents, we suggest increasing the quality of</p>			<p>- May I request to relax the Data Transmission to USB and Wifi Control to have a Faster Data Transmission and other brands can comply with the request.</p> <p>Request Data Transmission : SD card and US <b>or USB and WiFi Control</b></p>	<p>Change Specification into the following:</p> <p>Nozzle temperature: At least 260 degree celsius</p> <p>Printing size: At least 200 x 200 x 250 mm or larger</p> <p>Maximum print speed: 250mm/s or higher</p>

Item No. and Name/Agency Specification	Gabigroup	Digital Manufacturing Solutions	Noblevision Services Inc.	A.G. Datacom Phils., Inc.	TESDA response
<p>Data transmission: SD card and USB/Type-C USB Others: Touchscreen</p>	<p>the printer to be delivered so that the project can be more successful rather than experience a lot of down times. We suggest to increase slightly the specs as seen below:</p> <p>At least 265 degree celsius At least 220x200x250mm or larger Maximum print speed: 300mm/s Leveling: 30-point Auto Leveling Extruder: Single/ Hardened Nozzle size 0.4mm Motherboard: 32bit silent motherboard or equivalent Data transmission: USB Disk, Wifi, Ethernet, Cloud printing Others: Touchscreen and PEI flexible plate</p>				<p>Leveling: Auto (or better)</p> <p>Extruder: Single;</p> <p>Nozzle size 0.4mm</p> <p>Motherboard: 32bit silent motherboard or equivalent</p> <p>Data transmission: At least SD card and USB/Type-C USB, Wifi</p> <p>Others: Touchscreen</p>
<b>12-003: 3D Scanner</b>					

Item No. and Name/Agency Specification	Gabigroup	Digital Manufacturing Solutions	Noblevision Services Inc.	A.G. Datacom Phils., Inc.	TESDA response
<ul style="list-style-type: none"> <li>● Handheld 3D Scanner for medium to large object with built-in touchscreen interface</li> <li>● 3D point accuracy up to 0.1mm</li> <li>● 3D resolution up to 0.6mm or better</li> <li>● Field of View: 280 x 360mm to 490 x 650mm</li> <li>● Data processing algorithms: Geometry and textured based</li> <li>● Ability to capture texture, light source: white LED</li> <li>● Texture resolution: 2.3mp</li> <li>● 3D Reconstruction rate: 16fps or equivalent</li> <li>● Data acquisition speed : at least 3mIn points /sec or higher</li> <li>● Built-in onboard screen, touchscreen interface</li> <li>● System requirements: Intel core i7 or i9, 64+GB RAM NVIDIA GPU with 8+GB VRAM Complete accessories</li> </ul>	<p>The specifications listed are based on old 3D Scanner models. There are also new technologies capable of higher resolution and accuracy that are also much easier to use. We have listed several suggestions below including the following to further improve the specifications so that the agency can update their procurement to ensure that only recently released or new 3D Scanners will be able to be supplied. Effectively making sure that the 3D scanner to be supplied to TESDA will be advantageous and will not be obsolete in just a few years. Some suggestions affect the values of below standards:</p> <ul style="list-style-type: none"> <li>• Scanning Light technology: White LED and Infrared Light</li> </ul>		<p>Can we provide 3D printer with the same brand of Metal 3D Printer, Better compatibility</p>	<ul style="list-style-type: none"> <li>- Do we need to provide a laptop or desktop for this 3D scanner requirement? Because you required a system requirement.</li> <li>- May I request the package inclusion for 1 set USB kit is optional if the items offered can have a capability to Wifi or Lan Connectivity.</li> </ul>	<ul style="list-style-type: none"> <li>- A laptop is required and must be compatible with the system requirement of the scanner.</li> <li>- The agency specification shall remain the same. However the bidders may offer higher technical specifications, considering that the agency specifications are minimum in nature.</li> </ul>

Item No. and Name/Agency Specification	Gabigroup	Digital Manufacturing Solutions	Noblevision Services Inc.	A.G. Datacom Phils., Inc.	TESDA response
<ul style="list-style-type: none"> <li>● 3D Formats: OBJ, PLY, STL, etc</li> <li>● User's Manual (English)</li> <li>● Certificate of authority to sell from the manufacturer or local distributor/reseller</li> <li>● Certificate of End of Life (EOL) Service from the Manufacturer and/or Supplier for 5 years</li> <li>● Training certificate provided by manufacturer to certified trainer (see section 6 of the bidding document for details)</li> </ul>	<ul style="list-style-type: none"> <li>• Scan speed: at least 1,200,000 pts/s instead of Data acquisition speed</li> <li>• Volumetric accuracy and 3D Scan accuracy</li> <li>• Texture resolution from 2.3MP to 5.0MP</li> <li>• Camera Frame rate standard to 55FPS minimum</li> <li>• Additional Certifications to improve standard of equipment supplied</li> </ul> <p>Suggestion:</p> <ul style="list-style-type: none"> <li>• Handheld Color 3D Scanner for medium to large objects</li> <li>• 3D volumetric accuracy up to 0.05mm</li> <li>• 3D Scan Accuracy up to 0.05mm or better</li> <li>• Field of View: 420x440mm up to 780x900mm</li> <li>• Data processing algorithms: Geometry and textured based</li> <li>• Ability to capture texture, color light</li> </ul>				



Item No. and Name/Agency Specification	Gabigroup	Digital Manufacturing Solutions	Noblevision Services Inc.	A.G. Datacom Phils., Inc.	TESDA response
	<p>source: white LED and Infrared IR light</p> <ul style="list-style-type: none"> <li>• Texture resolution: 5MP</li> <li>• Scan speed: at least 1,200,000 points/s</li> <li>• Camera Frame Rate: 55FPS</li> <li>• Certifications: CE, FCC, ROHS, WEEE, KC</li> <li>• Built-in onboard color camera</li> <li>• System requirements: Intel core i7 16+GB RAM NVIDIA GPU with 4+GB VRAM Complete accessories</li> <li>• 3D Formats: OBJ, PLY, STL, etc</li> <li>• User's Manual (English)</li> <li>• Certificate of authority to sell from the manufacturer or local distributor/reseller</li> <li>• Certificate of End of Life (EOL) Service from the Manufacturer and/or Supplier for 5 Years</li> <li>• Training certificate provided by manufacturer to certified</li> </ul>				

<b>Item No. and Name/Agency Specification</b>	<b>Gabigroup</b>	<b>Digital Manufacturing Solutions</b>	<b>Noblevision Services Inc.</b>	<b>A.G. Datacom Phils., Inc.</b>	<b>TESDA response</b>
	trainer (see section 6 of the bidding document for details)				

**Lot 14: IT Equipment**


Item No. and Name/Agency Specification	World Solution Technology, Inc.	Noblevision Services Inc.	A.G. Datacom Phils., Inc.	Accent Micro Technologies Inc.	TESDA response
<b>14-001: Desktop Computer for Productivity Application</b>					
<ul style="list-style-type: none"> <li>- OS: Windows 11 or higher</li> <li>- Core i7 11th Gen or higher</li> <li>- 8GB DDR4 or faster</li> <li>- 1TB HDD, 2GB dedicated graphics</li> <li>- 220VAC 60Hz compliant</li> <li>- 21.5 inch monitor FHD</li> <li>- With Mouse and Keyboard</li> <li>- With MS Office</li> </ul>			<ul style="list-style-type: none"> <li>- For OS, May I know the required version of Windows 11, Home or Professional?</li> <li>- For MS Office, may I know the required version of MS Office, Home and Student is acceptable?</li> <li>- Can we request to add endpoint security for the computers to ensure the security of the units? Below is the recommended Endpoint Security.               <ul style="list-style-type: none"> <li>• Anti-Ransomwares, Email Protection</li> <li>• IDS/IPS Protection, Firewall Protection, Phishing Protection, Browsing Protection, Vulnerability Scan, Spam Protection</li> </ul> </li> </ul>		<p>The specifications shall remain the same. However, the Windows and MS Office versions, a Professional version is preferred, can be included in the prospective bidders offer.</p> <p>Additionally, the endpoint securities can be included in the offer.</p>

Item No. and Name/Agency Specification	World Solution Technology, Inc.	Noblevision Services Inc.	A.G. Datacom Phils., Inc.	Accent Micro Technologies Inc.	TESDA response
			<ul style="list-style-type: none"> <li>• Advanced Device Control, Asset Management, Application Control, Data Loss Prevention</li> <li>• Security Updates and Software Updates</li> <li>• 1 year subscription</li> <li>• Provide Manufacturer Certificate</li> </ul>		
<b>14-002:</b> Desktop Computer for Photo and Video Editing					
Certificate of End of Life (EOL) Service from Manufacturer (5 years)	We respectfully request if we can submit notarized undertaking from the bidder stating Certificate of End of Life (EOL) Service (5 years) instead from the Manufacturer.		- May I request to relax the Certificate of EOL Service from Manufacturer to Certificate of EOL Service from Manufacturer/Distributor/ Supplier (5 years)	Please relax Certificate of End of Life (EOL) Service from Manufacturer from 5 Years to 3 Years Only.	The agency specifications shall remain the same, except the below requirement:  Certificate of End of Life (EOL) Service from the Manufacturer and/or Supplier (5 years)

Item No. and Name/Agency Specification	World Solution Technology, Inc.	Noblevision Services Inc.	A.G. Datacom Phils., Inc.	Accent Micro Technologies Inc.	TESDA response
			<p>- Can we request to add endpoint security for the computers to ensure the security of the units? Below is the recommended Endpoint Security.</p> <ul style="list-style-type: none"> <li>• Anti Ransomwares, Email Protection</li> <li>• IDS/IPS Protection, Firewall Protection, Phishing Protection, Browsing Protection, Vulnerability Scan, Spam Protection</li> <li>• Advanced Device Control, Asset Management, Application Control, Data Loss Prevention</li> <li>• Security Updates and Software Updates</li> <li>• 1 year subscription</li> <li>• Provide Manufacturer Certificate</li> </ul>		<p>This can be submitted after the award.</p> <p>The endpoint securities can be included in the offer.</p>

Item No. and Name/Agency Specification	World Solution Technology, Inc.	Noblevision Services Inc.	A.G. Datacom Phils., Inc.	Accent Micro Technologies Inc.	TESDA response
<b>14-003: Laptop</b>					
<p>Processor &amp; Chipset: 16 cores 32 threads RAM Memory: 32 GB DDR5 4800 MHz Solid State Drive (SSD): 2TB + 2TB M.2 NVMe PCIe 4.0 Performance RAID0 SSD Screen Size: 15-16 inch Type &amp; Capacity: 90WHrs, 4S1P, 4-cell Li-ion battery Battery Timing: Up to 8 Hours Power Supply: Wattage ø6.0, 240W AC Adapter Output: 20V DC, 12A, 240W Input: 100~240V AC 50/60Hz universal</p> <p>with licensed OS (Windows 11 or higher) with licensed Microsoft Office 2019 or higher</p>	<p>We respectfully want to clarify/request if you can add the Graphics Card requirement of 16GB GDDR6, based on our assessment on your specification, the graphics card that included is 16GB GDDR6.</p> <p>We respectfully want to request if you can also include the Certificate of authority to sell from the Manufacturer, this huge quantity should have a support from the Manufacturer to protect the availability of the components of specification requirements.</p>	<p>Is it possible to change the specs storage to 2 TB SSD since it is enough for high end laptop</p>	<p>- For Type &amp; Capacity, may I request to relax the requirements to the Manufacture Standard? - For Battery Timing, may I request to relax the Battery Timing to up to 6 hours. - For OS, May I know the required version of Windows 11, Home or Professional? - For MS Office 2019, may I know the required version of MS Office, Home and Student is acceptable? - Can we request to add endpoint security for the computers to ensure the security of the units? Below is the recommended Endpoint Security.</p> <ul style="list-style-type: none"> <li>• Anti-Ransomwares, Email Protection</li> <li>• IDS/IPS Protection, Firewall, Phishing</li> </ul>		<p>The specifications shall remain the same. However, an offer with better specification and higher functionality is prioritized.</p>

Item No. and Name/Agency Specification	World Solution Technology, Inc.	Noblevision Services Inc.	A.G. Datacom Phils., Inc.	Accent Micro Technologies Inc.	TESDA response
			Protection, Browsing Protection, Vulnerability Scan, Spam Protection <ul style="list-style-type: none"> <li>• Advanced Device Control,</li> <li>Asset Management, Application Control, Data Loss Prevention</li> <li>• Security Updates and Software Updates</li> <li>• 1 year subscription</li> <li>• Provide Manufacturer Certificate</li> </ul>		
<b>14-004: Interactive SMART TV</b>					
75" LED Touchscreen 4K Ultra HD Connectivity: Wi-Fi, LAN 3 HDMI Ports and USB HDMI, Audio, Headphone output 200 PQI (Picture Quality Index), 3200 HDR (High Dynamic Range)	We respectfully want to request if we can accept an equivalent of refresh rate instead of PQI (Picture Quality Index), PQI Usually used on Smart TV. Your requirements are a mixed specification of Smart TV and Interactive Smart		May I know if the requirement is Interactive Board or Smart TV? Upon checking some specifications combine Interactive board and Smart TV.  - May I request to relax the	Please relax Certificate of End of Life (EOL) Service from Manufacturer from 5 Years to 3 Years Only.	The item and agency specifications shall remain the same, except the below requirement:  Certificate of End of Life (EOL) Service from the Manufacturer and/or Supplier (5 years)

Item No. and Name/Agency Specification	World Solution Technology, Inc.	Noblevision Services Inc.	A.G. Datacom Phils., Inc.	Accent Micro Technologies Inc.	TESDA response
<p>AC 110V-240V 50/60Hz Includes Operation Manual, Remote Control, Base Stand with HDMI cable, 5 meters built-in camera and mic (optional)</p> <p>Additional Requirements: Certificate of authority to sell from the manufacturer or local distributor/reseller Certificate of End of Life (EOL) Service from Manufacturer (5 years)</p>	<p>Board. Please see the comparison below.</p>  <p>Also, We respectfully want to request if we can accept the HDR or SDR. SDR displays typically have a brightness range of 100-300 nits, which is suitable for most everyday viewing environments. In contrast, HDR displays can produce a peak brightness of up to 10,000 nits, significantly higher than the</p>		<p>Certificate of EOL Service from Manufacturer to <b>Certificate of EOL Service from Manufacturer/Distributor/Supplier (5 years)</b></p>		<p>This can be submitted after the award.</p>



Item No. and Name/Agency Specification	World Solution Technology, Inc.	Noblevision Services Inc.	A.G. Datacom Phils., Inc.	Accent Micro Technologies Inc.	TESDA response
	<p>brightness range of SDR displays.</p> <p>For interactive displays, we suggest using SDR as they are more suitable for writing activities. Excessive brightness can cause eye strain during writing.</p> <p>We respectfully request if we can submit notarized undertaking from the bidder stating Certificate of End of Life (EOL) Service (5 years) instead from the Manufacturer.</p>				
<b>14-005: A3 Inkjet Printer</b>					
<ul style="list-style-type: none"> <li>● print, scan, copy, fax</li> <li>● wide format inkjet printer</li> <li>● Tank type ink system</li> <li>● 1200 x 4800 dpi print resolution</li> </ul>			-May I request to have an option for a tank type ink system to Full ink cartridge.		The agency specifications shall remain the same.

Item No. and Name/Agency Specification	World Solution Technology, Inc.	Noblevision Services Inc.	A.G. Datacom Phils., Inc.	Accent Micro Technologies Inc.	TESDA response
<ul style="list-style-type: none"> <li>● print width 291mm, 297mm (borderless)</li> <li>● 250 or above sheets input tray</li> <li>● 100 sheets output tray</li> <li>● LCD touch screen</li> <li>● LAN and WiFi Connectivity</li> <li>● Supports mobile device direct print and full duplex printing</li> </ul>			Request: Tank type ink system or <b>Full ink cartridge</b>		
<b>14-007: Network Attached Storage</b>					
<p>Dual Core Processor or higher</p> <ul style="list-style-type: none"> <li>- 6GB RAM or higher</li> <li>- 4 Bays or more</li> <li>- Hot swappable HD</li> <li>- 2 built in M.2 SSD</li> <li>- 2x GbE LAN</li> <li>- 2 USB port</li> <li>- Windows and Mac Compatible</li> </ul> <p>Includes:</p> <ul style="list-style-type: none"> <li>- 4x8TB NAS HD</li> <li>- 220V 60Hz Power supply</li> </ul>				<ul style="list-style-type: none"> <li>- Is it a tower form factor?</li> <li>- Do you have a preferred Processor? Ghz?</li> <li>- For what purpose will you use the NAS?</li> </ul>	<ul style="list-style-type: none"> <li>- YES, it is a tower form factor</li> <li>- Dual core processor or higher, 3.1 Ghz or higher</li> <li>- The NAS will be used for data storage and access in multiple computers</li> </ul>

Item No. and Name/Agency Specification	World Solution Technology, Inc.	Noblevision Services Inc.	A.G. Datacom Phils., Inc.	Accent Micro Technologies Inc.	TESDA response
- Management Software/OS					
<b>14-008: Wireless Router</b>					
<p>Dual band 2.4 and 5 GHz            Networks Standard: 802.11b, 802.11a, 802.11n, 802.11ac, 802.11gi            3000-7200 Mbps            6 x Gigabit Ethernet LAN Ports            1 x Gigabit Ethernet WAN Port            2 x USB 3.0 Ports            Google Assistant Integration            Amazon Alexa Integration            -Adaptor/Charger 220 - 240v 60Hz</p>	<p>We would like to respectfully inquire if the wireless router speed requirement falls within the range of 3000-7200 Mbps.</p>	<p>Specification mention Google Assistant Integration/ Amazon Alexa Integration, no such product in market, please clarify if we can use other similar product</p>	<p>- May I request to relax the number of Ethernet Lan Port to 3 ports.             Request Lan Ports: 6 x Gigabit Ethernet LAN Port <b>or 3 or 6 x Gigabit Ethernet LAN Port</b></p> <p>- May I request to relax the number of ports and the version of ports to the manufacturer's standard, as the transition of the router model is affecting the ports.</p> <p>Request Ports: <b>2 x USB 3.0 Ports Or Manufacture Standard Ports</b></p>		<p>The agency specifications shall remain the same, except the below requirements:</p> <p>Google Assistant Integration, Amazon Alexa Integration and/or similar or equivalent technology</p> <p>The speed ranges from 3000-7200 Mbps</p>

**Lot 16: Closed-circuit Television Units**

<b>Noblevision Services Inc.</b>	<b>TESDA response</b>
<b>16-001: Dome Turret Type 4MP Camera with Audio</b>	
Given specification is for 2MP, please clarify	The item name should be Dome Turret Type 2MP Camera with Audio

**Lot 17: Air Conditioning Units**

<b>Item No. and Name/Agency Specification</b>	<b>World Solution Technology, Inc.</b>	<b>J1TEK Trading Corporation</b>	<b>TESDA response</b>
		<p>While we have the full intention to provide and deliver the said items, there are items which are no longer available or rendered obsolete by all suppliers. These items refer to numbers 1 and 2 of the above paragraph. Aircon suppliers and manufacturers no longer provide Floor Mounted Air Conditioning Units having 2.5 HP and 1.5 HP. The lowest HP for Floor Mounted Air Conditioning Units is at least 3 HP.</p> <p>Thus, we are respectfully asking for your consideration and approval of Air Conditioning Units with the same standard and quality, albeit not Floor Mounted.</p> <p>In lieu of the above items, we are offering the following Air Conditioning Units and their specifications. We are also including below our offer</p>	

Item No. and Name/Agency Specification	World Solution Technology, Inc.	J1TEK Trading Corporation	TESDA response
		for Item No. 3, for your approval:	
<b>17-001: Air Conditioning Unit, 2.5 HP Split Type-Floor Mounted</b>			
<ul style="list-style-type: none"> <li>● 2.5 hp</li> <li>● Split Type (Floor Mounted)</li> <li>● Inverter</li> <li>● Power Consumption: 200-2200W</li> <li>● Max Cooling Capacity: 20,500 kJ/h</li> <li>● Indoor Noise Level (Lo): 38-43 dB(A)</li> <li>● Indoor Air Flow (Hi): 635-700 cfm</li> <li>● Power Supply: 220-240 volts, 60 Hz, 1 phase</li> <li>● supply, delivery, installation and commissioning</li> </ul>	<p>We respectfully request if we can offer Wall Mounted Split Type because upon checking the minimum HP for a Floor Mounted Split Type A/C is 4.0 HP.</p> <p>We respectfully request if we can relax it to Manufacturer's Std.</p>	<ul style="list-style-type: none"> <li>• CSPF: 5 STARS</li> <li>• COOLING CAPACITY: 24000Kj/HP</li> <li>• R32 Refrigerant</li> <li>• Inverter Technology (5D DC)</li> <li>• Smart Gentle Cool Wind</li> <li>• Quiet Operation</li> <li>• Easy to Clean Air Duct System</li> <li>• Vertical and Horizontal Swing</li> <li>• Titan Gold Fins</li> <li>• Anti-Mild Dew</li> <li>• Dehumidifier</li> <li>• DIMENSION INDOOR UNIT: L22cm x W108cm x H31.5cm</li> <li>• INDOOR GROSS WEIGHT: 16kg / NET WEIGHT 13kg</li> <li>• DIMENSION OUTDOOR UNIT: L29cm x W78cm x H60.5cm</li> <li>• OUTDOOR GROSS WEIGHT: 37kg / NET WEIGHT 32kg</li> </ul>	<p>The specifications shall remain the same.</p> <p>A higher horsepower can be offered, but the item shall still be floor mounted.</p>
<b>17-002: Air Conditioning Unit, 1.5 HP Inverter - Floor Mounted</b>			
<ul style="list-style-type: none"> <li>● 1.5 hp</li> <li>● Split Type (Floor Mounted)</li> <li>● Inverter</li> <li>● Power Consumption: 0.82 kW - 1.12 kW</li> <li>● Rated Capacity: 3.5 kW (Cool); 4.5 kW (Heat)</li> </ul>	<p>We respectfully request if we can offer Wall Mounted Split Type because upon checking the minimum HP for a Floor Mounted Split Type A/C is 4.0 HP.</p>	<ul style="list-style-type: none"> <li>• CSPF: 5 STARS</li> <li>• R32 Refrigerant</li> <li>• Inverter Technology (5D DC)</li> <li>• Smart Gentle Cool Wind</li> <li>• Titan Gold Fins</li> <li>• Anti-Mild Dew</li> <li>• Anti-Mosquito Function</li> <li>• Dehumidifier</li> <li>• 5-in-1 Health Filter</li> </ul>	<p>The specifications shall remain the same.</p> <p>A higher horsepower can be offered, but the item shall still be floor mounted.</p>

<b>Item No. and Name/Agency Specification</b>	<b>World Solution Technology, Inc.</b>	<b>J1TEK Trading Corporation</b>	<b>TESDA response</b>
<ul style="list-style-type: none"> <li>● Indoor Noise Level: 29-40 dBA</li> <li>● Indoor Air Flow: 106-153 (Cool); 123-178 (Heat)</li> <li>● Power Supply: 220-240 volts, 60 Hz, 1 phase</li> <li>● supply, delivery, installation and commissioning</li> </ul>	<p>We respectfully request if we can relax it to Manufacturer's Std.</p>	<ul style="list-style-type: none"> <li>• Fast Cooling</li> <li>• DIMENSION INDOOR UNIT: L20.8cm x W80.8cm x H29.2cm</li> <li>• PRODUCT WEIGHT INDOOR: 13kg</li> <li>• DIMENSION OUTDOOR UNIT: L29cm x W77.7cm x H49.8cm</li> <li>• PRODUCT WEIGHT OUTDOOR: 25kg</li> </ul>	
<p><b>17-003: Air Conditioning Units 1.5 HP Split Type-Wall Mounted)</b></p>			
<ul style="list-style-type: none"> <li>● 1.5 hp</li> <li>● Split Type (Wall Mounted)</li> <li>● Inverter</li> <li>● Power Consumption: 160-1890W</li> <li>● Max Cooling Capacity: 14,298 kJ/h</li> <li>● Indoor Noise Level (Lo): 31 dB(A)</li> <li>● Indoor Air Flow (Hi): 600 m3/h</li> <li>● Power Supply: 220-240 volts, 60 Hz, 1 phase</li> <li>● WiFi IOTS</li> <li>● supply, delivery, installation and commissioning</li> </ul>	<p>We respectfully request if we can relax it to Manufacturer's Std.</p>	<ul style="list-style-type: none"> <li>• CSPF: 5 STARS</li> <li>• R32 Refrigerant</li> <li>• Inverter Technology (5D DC)</li> <li>• Smart Gentle Cool Wind</li> <li>• Titan Gold Fins</li> <li>• Anti-Mild Dew</li> <li>• Anti-Mosquito Function</li> <li>• Dehumidifier</li> <li>• 5-in-1 Health Filter</li> <li>• Fast Cooling</li> <li>• DIMENSION INDOOR UNIT: L20.8cm x W80.8cm x H29.2cm</li> <li>• PRODUCT WEIGHT INDOOR: 13kg</li> <li>• DIMENSION OUTDOOR UNIT: L29cm x W77.7cm x H49.8cm</li> <li>• PRODUCT WEIGHT OUTDOOR: 25kg</li> </ul>	<p>The specifications shall remain the same.</p>

**Lot 18: Office Furniture**

Item No. and Name/Agency Specification	World Solution Technology, Inc.	Christine-Arcy Furniture Designs, Inc.	TESDA response
		<p>I write this letter on behalf of CHRISTINE-ARCY FURNITURE DESIGNS, INC. regarding the following items:</p> <ol style="list-style-type: none"> <li>1. Trainer Table, Long (25 pc);</li> <li>2. Foldable Training Table (250 pc);</li> <li>3. Computer Table (25 pc);</li> <li>4. Conference Table, 14-seater (5 pc);</li> <li>5. Executive Chair (75 pc);</li> <li>6. Gas Lift Chair (250 pc);</li> <li>7. Chair (500 pc);</li> <li>8. Gang Chair (5 pc);</li> <li>9. Reception Desk (5 pc);</li> <li>10. Locker Cabinet (15 pc);</li> <li>11. 4-Layer Lateral Filing Cabinet (15 pc);</li> <li>12. Full Height Glass Sliding Door Cabinet (15 pc);</li> <li>13. 5 layer open shelf cabinet (15 pc);</li> </ol> <p>While we remain fully committed to providing the specified furniture items, we have encountered some challenges due to the broad nature of the original specifications. Specifically, the specifications outlined are quite general, and as a result, different manufacturers and suppliers offer varying interpretations and versions of these items.</p> <p>For instance, the original specifications do not account for the variations in design and material choices among different suppliers. This variability means that certain items, particularly those with</p>	

Item No. and Name/Agency Specification	World Solution Technology, Inc.	Christine-Arcy Furniture Designs, Inc.	TESDA response
		unique or specific attributes, may no longer be available or may differ significantly from what was initially outlined.	
<b>18-001: Trainer Table, Long</b>			
<p>2 layer folding table 140x60x75 cm Steel frame black Wood top mahogany, 1 inch thick With 4-adjustable feet, double spring design</p>	<p>We respectfully request if we can relax it to 160x40x75cm.</p> <p>We respectfully request if we can consider MFC or MDF Laminated Board.</p> <p>May we also request for a picture of this Item</p>	<ul style="list-style-type: none"> <li>• 2 Layer Folding Table</li> <li>• 140 x 60 x 75cm</li> <li>• Steel Frame Black</li> <li>• 1" Laminated Wood Top (Mahogany Shade Finish)</li> <li>• With 4-adjustable feet</li> <li>• Double Spring Design</li> </ul>	<p>The specifications shall remain the same, except the below requirement:</p> <p>MFC tabletop in wooden finish</p> <p>End-user to provide a sample image</p>
<b>18-002: Foldable Training Table</b>			
<p>MDF top and modesty, Color: customized, flat edge Steel frame, Color: Gray Size: 140cm L x 50cm W x75cm H Two-layer With 4 caster wheels</p>	<p>We respectfully request if we can relax it to 150cm L x 60cmW x 72.5cm H</p>	<ul style="list-style-type: none"> <li>• MDF Top and Modesty</li> <li>• Color: Customized, flat edge</li> <li>• Steel Frame (Color: Gray)</li> <li>• Size: 140cm L x 50cm W x 75cm H</li> <li>• Two-Layer</li> <li>• With 4 Caster Wheels</li> </ul>	<p>The specifications shall remain the same.</p>
<b>18-003: Computer Table</b>			
<ul style="list-style-type: none"> <li>• Dimension (LxW): 1200 x 600 mm</li> <li>• Material: MFC Worktop in Laminate Finish</li> <li>• Adjustable height: 2-lifting column for height in 700-1180mm, 2mm thick Rectangular steel tube, 4-preset LED memory controller</li> <li>• Motor: Single motor, 90-230V, speed in at least 20mm/s</li> </ul>	<p>We respectfully ask what is the Motor used for?</p>	<ul style="list-style-type: none"> <li>• Dimension: 1200mm L x 600mm W x 740mm H</li> <li>• Material: Plywood Worktop in Laminate (Beechwood Finish)</li> <li>• Fixed Tubular Metal Legs in Powder Coated Finish</li> </ul>	<p>The specifications shall remain the same.</p> <p>The motor for the computer table is used to adjust the table as conveniently as possible.</p>



<b>Item No. and Name/Agency Specification</b>	<b>World Solution Technology, Inc.</b>	<b>Christine-Arcy Furniture Designs, Inc.</b>	<b>TESDA response</b>
<ul style="list-style-type: none"> <li>• 4-hidden movable wheels</li> <li>• Steel Legs in Powder Coat Finish</li> </ul>			
<b>18-004: Conference Table, 14-seater</b>			
<ul style="list-style-type: none"> <li>• 14 pax Conference Table</li> <li>• Main Table: 3600mm L x 1200mm W x 750mm H</li> <li>• Finish: E1 standard, beech color</li> <li>• Top: 50mm thick board</li> <li>• Sidings in 2mm PVC edge band</li> <li>• Boat-shaped top</li> <li>• Wire management (optional)</li> <li>• With mid laminate accent</li> <li>• Metal legs</li> <li>• Adjustable feet leveler</li> </ul>		<ul style="list-style-type: none"> <li>• 14 Pax Conference Table</li> <li>• Main Table: 3600mm L x 1200mm W x 750mm H</li> <li>• Material: Laminated Plywood with Solid Wood Edging</li> <li>• Top: 50mm thick board</li> <li>• Finish: Walnut Finish</li> <li>• Boat-shaped Top</li> <li>• With Mid Laminate Accent</li> <li>• Metal Legs</li> <li>• Adjustable Feet Leveler</li> </ul>	The specifications shall remain the same.
<b>18-005: Executive Chair</b>			
<ul style="list-style-type: none"> <li>• High back chair with armrest</li> <li>• Material: Polyurethane Upholstered seat and back</li> <li>• Armrest and starbase</li> <li>• Gas Lift: 75mm - 85mm</li> <li>• Caster Type: Polypropylene Plastic</li> <li>• Chair Seating Capacity: 120-130kgs</li> <li>• Tilt-Lock Function</li> <li>• Pneumatic Height Adjustment</li> <li>• 360° Swivel Function</li> </ul>		<ul style="list-style-type: none"> <li>• High Back Chair with Armrest</li> <li>• Material: Polyurethane Upholstered Seat and back</li> <li>• Armrest and Starbase</li> <li>• Gas Lift</li> <li>• Caster Type: Polypropylene Plastic</li> <li>• Chair Seating Capacity:120k-130kg</li> <li>• Tilt-Lock Mechanism</li> <li>• Pneumatic Height Adjustment</li> <li>• 360° swivel Function</li> </ul>	The specifications shall remain the same.

Item No. and Name/Agency Specification	World Solution Technology, Inc.	Christine-Arcy Furniture Designs, Inc.	TESDA response
<b>18-006: Gas Lift Chair</b>			
<ul style="list-style-type: none"> <li>• Midback chair with armrest</li> <li>• Material: Fabric seat and mesh back</li> <li>• Armrest and starbase</li> <li>• Gas Lift: 75mm - 85mm</li> <li>• Caster Type: Polypropylene Plastic</li> <li>• Chair Seating Capacity: 120-130kgs</li> <li>• Tilt-Lock Function</li> <li>• Pneumatic Height Adjustment</li> <li>• 360° Swivel Function</li> </ul>		<ul style="list-style-type: none"> <li>• Mid-back office chair</li> <li>• 360° swivel function</li> <li>• Tilting Mechanism</li> <li>• Chrome Plated Star-base</li> <li>• Adjustable Height</li> <li>• Lumbar Support</li> <li>• Seating Capacity: 100-120kg</li> </ul>	The specifications shall remain the same.
<b>18-007: Chair</b>			
<ul style="list-style-type: none"> <li>• Monoblock Chair</li> <li>• Material: High Grade Plastic</li> <li>• Stackable</li> <li>• Color: White</li> <li>• Seat Width: 383 mm</li> <li>• Seat Height: 446 mm</li> <li>• Thickness: 45 mm</li> <li>• Seat Depth: 330 - 400 mm</li> <li>• Backrest Height: 800 - 900 mm</li> </ul>		<ul style="list-style-type: none"> <li>• Monoblock Chair</li> <li>• Seat Width: 370 mm</li> <li>• Front Legs Distance: 355 mm</li> <li>• Side Legs Distance: 365mm</li> <li>• Back Rest Height: 780 mm</li> <li>• Seat Length: 355mm</li> <li>• Seat Height: 375 mm</li> <li>• Can Carry up to 200kg</li> <li>• Strong Solid Plastic</li> <li>• Color: White</li> </ul>	<p>The specifications shall remain the same, except the below requirements:</p> <ul style="list-style-type: none"> <li>• Seat Width: Max. 383 mm</li> <li>• Seat Height: Max. 446 mm</li> <li>• Thickness: Max 45 mm</li> <li>• Seat Depth: Min. 330 mm - Max. 400 mm</li> <li>• Backrest Height: Min. 800 mm - Max. 900 mm</li> </ul>
<b>18-008: Gang Chair</b>			
<ul style="list-style-type: none"> <li>• 5-seater</li> <li>• L290*W62*H76 (cm)</li> <li>• Seat Width: 46CM</li> <li>• Gross Weight: 26 KG</li> </ul>		<ul style="list-style-type: none"> <li>• 5 Seater</li> <li>• L286cm x W68cm x H77cm</li> <li>• Steel Arm and Leg frame with chrome plated finish</li> <li>• Powder Coated, top quality steel beam</li> </ul>	The specifications shall remain the same but the prospective bidders can offer color variants for its finish.

Item No. and Name/Agency Specification	World Solution Technology, Inc.	Christine-Arcy Furniture Designs, Inc.	TESDA response
<ul style="list-style-type: none"> <li>• Weight-bearing: 150KG per seat</li> <li>• Backrest height: 52 cm</li> <li>• Gray</li> <li>• Materials: Arm and leg frames are steel with chrome plated finish, beam section steel, powder coated</li> <li>• Perforated seat design</li> </ul>		<ul style="list-style-type: none"> <li>• Can carry 150kg weight per seat</li> <li>• Perforated Seat and Back</li> <li>• Color: Gray/Silver</li> </ul>	
<b>18-009: Reception Desk</b>			
<p>Specification:</p> <ul style="list-style-type: none"> <li>• Main Table: 2200mm L x 600mm D x 1100mm H</li> <li>• Material: 25mm E1 Resistant Board + Plywood d</li> <li>• Cabinet carcass in 18mm thick HPL laminated E1 board</li> <li>• Sidings in 2mm PVC edge band</li> </ul> <p>Features:</p> <ul style="list-style-type: none"> <li>• With built in grommet wire management</li> <li>• (4) Hanging Drawer cabinet with lock and key</li> <li>• Full extension soft close drawer guide</li> <li>• With 1 CPU open shelves storage</li> <li>• Metal Brackets</li> <li>• Adjustable feet leveler</li> <li>• Installation and maintenance</li> </ul>	<p>No Technical Specification, we respectfully request if we can relax it Manufacturer's Std.</p>	<ul style="list-style-type: none"> <li>• Overall Dimension: 1600mm L x 600mm D x 1100mm H</li> <li>• Desk Height: 750mm</li> <li>• Material: Plywood in Laminated Finish</li> </ul>	<p>The end-user to provide the specification and sample image.</p>
<b>18-010: Locker Cabinet</b>		<ul style="list-style-type: none"> <li>• 9-door Locker</li> <li>• 3-Layer Utility Cabinet</li> <li>• Material: Steel Metal</li> <li>• Color: Powder Coated Light Gray</li> <li>• Dimension: L90cm x D40cm x H185cm</li> </ul>	<p>The specifications shall remain the same.</p>

Item No. and Name/Agency Specification	World Solution Technology, Inc.	Christine-Arcy Furniture Designs, Inc.	TESDA response
		<ul style="list-style-type: none"> <li>• Gauge: 22mm</li> <li>• with Hasp Provision for padlock and built-in locking mechanism</li> </ul>	
<ul style="list-style-type: none"> <li>• 9-door locker</li> <li>• 3-Layer Utility Cabinet</li> <li>• Material: Steel Metal</li> <li>• Color: Powder coated Light Gray</li> <li>• Dimension: W900-1000 x D400-500 x H1850-2000 mm</li> <li>• Gauge: 22mm</li> <li>• with hasp provision for padlock and built-in locking mechanism</li> </ul>			
<b>18-011: 4-Layer Lateral Filing Cabinet</b>			
Dimension: W 900mm x D 450mm x H 1331 mm 4 drawer lateral cabinet Central lock Material: Steel A4/F4 File Storage Color: White drawers and brown/bronze sides	We respectfully request if we can relax it to Manufacturer's Std.	<ul style="list-style-type: none"> <li>• Dimension: W 900mm x D 450mm x H1331mm</li> <li>• 4 drawer lateral cabinet</li> <li>• Central Lock</li> <li>• Material: Steel</li> <li>• A4/F4 File Storage</li> <li>• Color: White drawer with brown/bronze sides</li> </ul>	The specifications shall remain the same.
<b>18-012: Full Height Glass Sliding Door Cabinet</b>			
<ul style="list-style-type: none"> <li>• Steel Cabinet with Glass Sliding Door</li> <li>Width: 450 cm (outer side of the cabinet)</li> <li>Depth: 90 cm +-10% (outer side of the cabinet)</li> <li>Height: 185 cm +-10% (from floor to top edge of the cabinet)</li> <li>• A4 /F4 file storage</li> <li>• 4 adjustable</li> </ul>	We respectfully request if we can relax it to 400-450 cm (outer side of the cabinet).  May we also request for a picture of this Item.	<ul style="list-style-type: none"> <li>• 2-Doors Sliding Glass Steel Cabinet</li> <li>• Powder Coated Finish</li> <li>• 4 Adjustable Shelves divider</li> <li>• 5 Levels</li> <li>• Centralized Locking Mechanism</li> <li>• Color: Light Gray</li> </ul>	The specifications shall remain the same.  The end-user to provide the sample image.

<b>Item No. and Name/Agency Specification</b>	<b>World Solution Technology, Inc.</b>	<b>Christine-Arcy Furniture Designs, Inc.</b>	<b>TESDA response</b>
shelves, 5 levels • Centralized Locking Mechanism • Color: Textured Light Grey			
<b>18-013: 5 Layer Open Shelf Cabinet</b>			
Dimension: 1800(H) x 900(W) x 400(D) mm 5 Layer open shelf, adjustable shelf 0.6mm thickness Steel material Textured light gray		<ul style="list-style-type: none"> <li>• Dimension: 800mm W x 400mm D x 1800mm H</li> <li>• 5 Layer Open Shelf</li> <li>• Adjustable Shelves</li> <li>• Steel material</li> <li>• Color: Light Gray</li> </ul>	<p>The specifications shall remain the same, except the below requirement:</p> <p>Dimension: Max. 1800(H) x 900(W) x 400(D) mm</p>

For the information and guidance of all concerned.



**VIDAL D. VILLANUEVA III**  
BAC Chairperson/  
Deputy Director General  
TESD Operations

# Technical Specifications

**Lot 12 : 3D Printing Technology**

No.	Item	Minimum Agency Specifications Unless Otherwise Specified	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
1	Metal 3D Printer	Kindly refer to the technical specifications attached as <b>Revised Annex D12.</b>	1	set			
2	Fused Deposition Modeling 3D Printer		5	set			
3	3D Scanner		5	set			

\* 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 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.

All tools, equipment, gadgets and electrically operated instruments should have Standard Manufacturers Manual and/or Datasheet/Specification Sheet/Brochure as indicated in Annex D12.

Instruction Manual is an instructional book or booklet that is supplied with almost all technologically advanced products such as electrical products.

Datasheet/Specification Sheet/Brochure is a document that summarizes the performance and other characteristics of a product, machine, component that comes along with the product from its release from the manufacturer.

**I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.**

<b>Name of Company/Bidder</b>	<b>Signature over Printed Name of Authorized Representative</b>	<b>Date</b>
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<b>REVISED ANNEX D12</b>
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Lot No.	Lot	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
12	3D Printing Technology	12-001	Metal 3D Printer	Refer to Technical Specification of Item Code 12-001	Equipment	Evaluation of Brochure with picture and/or data sheet and training proposal	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	Yes
12	3D Printing Technology	12-002	Fused Deposition Modeling 3D Printer	Refer to Technical Specification of Item Code 12-002	Equipment		- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	Yes
12	3D Printing Technology	12-003	3D Scanner	Refer to Technical Specification of Item Code 12-003	Equipment		- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	Yes

**I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.**

\_\_\_\_\_  
Name of Company/Bidder

\_\_\_\_\_  
Signature over Printed Name of Authorized Representative

\_\_\_\_\_  
Date

## TECHNICAL SPECIFICATION

<b>Name of The Equipment</b>	<b>Metal 3D Printer</b>
<b>Item Code</b>	12-001
<b>Technology Area(s)</b>	3D Printing Technology

### Technical Specification

- Print technology: MFFF (Metal Fused Filament Fabrication) and/or similar Metal 3D printing technology
- Build volume: at least 300 x 200 x 180mm
- Material Compatibility: Compatible with stainless steel, Tool Steel, High Purity Copper (99.8%), Inconel, Ceramic release
- Print Head: Dual Extrusion Print head Two nozzles — Metal material and release material
- Nozzle diameter: 0.4mm and 0.25mm
- Print Head Technology: Dual extruder
- Layer resolution: Compatible up to 50 micron or better
- Certification: CE/FCC
- Enclosure: Fully enclosed system with heated print chamber
- Heated bed: Vacuum enabled print bed must be able to reach at least 70 degree celsius or higher
- Printer should be able to connect to a printer management system that can track the users, print times, print consumption and other statistics
- Bed leveling should be an automatic leveling system
- Connectivity: Wifi, Ethernet, LAN, USB Drive Connectivity
- Power Requirements: 110-240VAC, 60Hz, Single-phase
- File type: STL
- Includes separate unit of Laboratory Sintering Furnace capable of reaching at least 1300C and is carbon free retort
  - Size Capacity: 140mm ID x 300mm L and can accommodate batch processing
- All metal materials from printing system are able to be sintered in furnace
- Gas Type: Argon and Mixes gas, locally available - Open source non-proprietary
- Includes slicing software (perpetual license) with template of material parameters readily available for debinding and sintering process
- Software Security: Two-factor authentication, org admin access, single sign-on
- Metal 3D printer, debinding station and sintering furnace should be the same brand and can be operated using one software for compatibility
- Different layer settings do not require any nozzle change
- Different metal materials do not require any nozzle change
- Offer must include training certification from the manufacturer for the end-user to become Certified Additive Expert in Metal 3D Printing. Attached certification curriculum.

### Additional requirements:

- Certificate of authority to sell from the manufacturer or local distributor/reseller
- Certificate of End of Life (EOL) Service from the Manufacturer and/or Supplier for 5 years
- Proof of certified trainer issued by the manufacturer



**Package inclusion:**

- All accessories and set of consumables, depending on the 3D metal printing machine requirements to ensure the machine operability.
- Depending on the print technology offered, the package may include, debinding, sintering machine, vacuum, sand blasting machine, etc.

**Sample Image:**



*Picture for reference only*

**I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.**

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<b>Name of Company/Bidder</b>	<b>Signature over Printed Name of Authorized Representative</b>	<b>Date</b>
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**TECHNICAL SPECIFICATION**

<b>Name of The Equipment</b>	<b>Fused Deposition Modeling 3D Printer</b>
<b>Item Code</b>	12-002
<b>Technology Area(s)</b>	3D Printing Technology

**Technical Specification**

Nozzle temperature	At least 260 degree celsius
Printing size	At least 200 x 200 x 250 mm or larger
Maximum printing speed	250mm/s
Leveling	Auto-levelling or better
Extruder	Single; Nozzle size: 0.4mm
Motherboard	32 bit silent motherboard or equivalent
Data transmission	SD card and USB/Type C USB, WiFi
Language	English
Others	Touchscreen
Accessories	<ul style="list-style-type: none"> <li>• Extruder cleaning kit</li> <li>• 4 spool PLA</li> <li>• 2 spool ABS</li> <li>• 2 spool PETG</li> </ul>
Other Requirements	<ul style="list-style-type: none"> <li>• Certificate of authority to sell from the manufacturer or local distributor/reseller</li> <li>• Certificate of End of Life (EOL) Service from the Manufacturer and/or Supplier for 5 years</li> </ul>

**I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.**

<b>Name of Company/Bidder</b>	<b>Signature over Printed Name of Authorized Representative</b>	<b>Date</b>
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**TECHNICAL SPECIFICATION**

<b>Name of The Equipment</b>	3D Scanner
<b>Item Code</b>	12-002
<b>Technology Area(s)</b>	3D Printing Technology

**Technical Specification**

- Handheld 3D Scanner for medium to large object with built-in touchscreen interface
- 3D point accuracy up to 0.1mm
- 3D resolution up to 0.6mm or better
- Field of View: 280 x 360mm to 490 x 650mm
- Data processing algorithms: Geometry and textured based
- Ability to capture texture, light source: white LED
- Texture resolution: 2.3mp
- 3D Reconstruction rate: 16fps or equivalent
- Data acquisition speed: at least 3Mln points /sec or higher
- Built-in onboard screen, touchscreen interface
- System requirements: Intel core i7 or i9, 64+GB RAM NVIDIA GPU with 8+GB VRAM Complete accessories
- 3D Formats: OBJ, PLY, STL, etc
- User’s Manual (English)
- Certificate of authority to sell from the manufacturer or local distributor/reseller
- Certificate of End of Life (EOL) Service from the Manufacturer and/or Supplier for 5 Years
- Training certificate provided by manufacturer to certified trainer (see section 6 of the bidding document for details)

**Package inclusions:**

- 1 Unit Battery
- 1 Unit Hard Case
- 1 Set USB Kit
- 1 Set Licensed 3D Scanning Software

**Sample Image:**



*Picture for reference only*

**I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.**

<b>Name of Company/Bidder</b>	<b>Signature over Printed Name of Authorized Representative</b>	<b>Date</b>
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# Technical Specifications

**Lot 14 : IT Equipment**

No.	Item	Minimum Agency Specifications Unless Otherwise Specified	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
1	Desktop Computer for Productivity Application	Kindly refer to the technical specifications attached as Revised <b>Annex D14.</b>	125	set			
2	Desktop Computer for Photo and Video Editing		5	set			
3	Laptop		150	set			
4	Interactive SMART TV		15	set			
5	A3 Inkjet Printer		15	set			
6	A4 Inkjet Printer		15	set			
7	Network Attached Storage		5	set			
8	Wireless Router		50	set			

\* 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 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.

All tools, equipment, gadgets and electrically operated instruments should have Standard Manufacturers Manual and/or Datasheet/Specification Sheet/Brochure as indicated in Annex D14.

Instruction Manual is an instructional book or booklet that is supplied with almost all technologically advanced products such as electrical products.

Datasheet/Specification Sheet/Brochure is a document that summarizes the performance and other characteristics of a product, machine, component that comes along with the product from its release from the manufacturer.

**I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.**

<b>Name of Company/Bidder</b>	<b>Signature over Printed Name of Authorized Representative</b>	<b>Date</b>
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**REVISED  
ANNEX D14**

Lot No.	Lot	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
14	IT Equipment	14-001	Desktop Computer for Productivity Application	<ul style="list-style-type: none"> <li>- OS: Windows 11 or higher</li> <li>- Core i7 11th Gen or higher</li> <li>- 8GB DDR4 or faster</li> <li>- 1TB HDD, 2GB dedicated graphics</li> <li>- 220VAC 60Hz compliant</li> <li>- 21.5 inch monitor FHD</li> <li>- With Mouse and Keyboard</li> <li>- With MS Office</li> </ul>	Equipment	Evaluation of Brochure with picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking of specification and quantity (offered vs. actual)</li> <li>- Check package completeness</li> <li>- Functionality test</li> <li>- 24 hr burn-in test</li> </ul>	Yes

Lot No.	Lot	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
14	IT Equipment	14-002	Desktop Computer for Photo and Video Editing	<ul style="list-style-type: none"> <li>- M2 Chip or higher</li> <li>- IOS newest version</li> <li>- 8-core CPU</li> <li>- 10-core GPU or higher</li> <li>- 2TB storage or higher</li> <li>- 24-inch 4.5K Retina Display or better</li> <li>- 16GB memory or higher</li> <li>- Wireless and wired ethernet</li> <li>- 220VAC 60Hz compliant</li> </ul> <p>Includes:</p> <ul style="list-style-type: none"> <li>- Final Cut Pro</li> <li>- Logic Pro</li> <li>- Magic keyboard with touch ID</li> <li>- Magic mouse</li> </ul> <p>Additional Requirements:  Certificate of authority to sell from the manufacturer or local distributor/reseller  Certificate of End of Life (EOL) Service from the Manufacturer and/or Supplier (5 years)</p>	Equipment	Evaluation of Brochure with picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking of specification and quantity (offered vs. actual)</li> <li>- Check package completeness</li> <li>- Functionality test</li> <li>- 24 hr burn-in test</li> </ul>	Yes

Lot No.	Lot	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
14	IT Equipment	14-003	Laptop	<p>Processor &amp; Chipset: 16 cores 32 threads  RAM Memory: 32 GB DDR5 4800 MHz  Solid State Drive (SSD): 2TB + 2TB M.2 NVMe  PCIe 4.0 Performance RAID0 SSD  Screen Size: 15-16 inch  Type &amp; Capacity: 90WHrs, 4S1P, 4-cell Li-ion battery  Battery Timing: Up to 8 Hours  Power Supply: Wattage ø6.0, 240W AC Adapter  Output: 20V DC, 12A, 240W  Input: 100~240V AC 50/60Hz universal</p> <p>with licensed OS (Windows 11 or higher)  with licensed Microsoft Office 2019 or higher</p>	Equipment	Evaluation of Brochure with picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking of specification and quantity (offered vs. actual)</li> <li>- Check package completeness</li> <li>- Functionality test</li> <li>- 24 hr burn-in test</li> </ul>	Yes
14	IT Equipment	14-004	Interactive SMART TV	<p>75" LED  Touchscreen  4K Ultra HD  Connectivity: Wi-Fi, LAN  3 HDMI Ports and USB  HDMI, Audio, Headphone output  200 PQI (Picture Quality Index), 3200 HDR (High Dynamic Range)  AC 110V-240V 50/60Hz  Includes Operation Manual, Remote Control, Base Stand  with HDMI cable, 5 meters  built-in camera and mic (optional)</p> <p>Additional Requirements:  Certificate of authority to sell from the manufacturer or local distributor/reseller  Certificate of End of Life (EOL) Service from the Manufacturer and/or Supplier (5 years)</p>	Equipment	Evaluation of Brochure with picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking of specification and quantity (offered vs. actual)</li> <li>- Check package completeness</li> <li>- Functionality test</li> <li>- 24 hr burn-in test</li> </ul>	Yes



Lot No.	Lot	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
14	IT Equipment	14-005	A3 Inkjet Printer	<ul style="list-style-type: none"> <li>● print, scan, copy, fax</li> <li>● wide format inkjet printer</li> <li>● Tank type ink system</li> <li>● 1200 x 4800 dpi print resolution</li> <li>● print width 291mm, 297mm (borderless)</li> <li>● 250 or above sheets input tray</li> <li>● 100 sheets output tray</li> <li>● LCD touch screen</li> <li>● LAN and WiFi Connectivity</li> <li>● Supports mobile device direct print and full duplex printing</li> </ul>	Equipment		<ul style="list-style-type: none"> <li>- Checking of specification and quantity (offered vs. actual)</li> <li>- Check package completeness</li> <li>- Functionality test</li> </ul>	Yes
14	IT Equipment	14-006	A4 Inkjet Printer	<ul style="list-style-type: none"> <li>● With Print, Scan, Copy, Fax features</li> <li>● Tank type ink system</li> <li>● Supports A4 and Legal Paper sizes</li> <li>● Approximately 15 page per minute (Black)</li> <li>● Can scan documents over network environment</li> <li>● Photo Quality</li> <li>● WiFi Connectivity</li> <li>● Support full duplex printing</li> </ul>	Equipment		<ul style="list-style-type: none"> <li>- Checking of specification and quantity (offered vs. actual)</li> <li>- Check package completeness</li> <li>- Functionality test</li> </ul>	Yes

Lot No.	Lot	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
14	IT Equipment	14-007	Network Attached Storage	<ul style="list-style-type: none"> <li>- Dual Core Processor, 3.1 Ghz or higher</li> <li>- 6GB RAM or higher</li> <li>- 4 Bays or more</li> <li>- Hot swappable HD</li> <li>- 2 built in M.2 SSD</li> <li>- 2x GbE LAN</li> <li>- 2 USB port</li> <li>- Windows and Mac Compatible</li> </ul> <p>Includes:</p> <ul style="list-style-type: none"> <li>- 4x8TB NAS HD</li> <li>- 220V 60Hz Power supply</li> <li>- Management Software/OS</li> </ul>	Equipment		<ul style="list-style-type: none"> <li>- Checking of specification and quantity (offered vs. actual)</li> <li>- Check package completeness</li> <li>- Functionality test</li> <li>- 24 hr burn-in test</li> </ul>	Yes
14	IT Equipment	14-008	Wireless Router	<p>Dual band 2.4 and 5 GHz  Networks Standard: 802.11b, 802.11a, 802.11n,  802.11ac, 802.11gi  3000-7200 Mbps  6 x Gigabit Ethernet LAN Ports  1 x Gigabit Ethernet WAN Port  2 x USB 3.0 Ports  Google Assistant Integration, Amazon Alexa  Integration and/or similar or equivalent  technology  -Adaptor/Charger 220 - 240v 60Hz</p>	Equipment		<ul style="list-style-type: none"> <li>- Checking of specification and quantity (offered vs. actual)</li> <li>- Check package completeness</li> <li>- Functionality test</li> <li>- 24 hr burn-in test</li> </ul>	Yes

**I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.**

\_\_\_\_\_  
**Name of Company/Bidder**

\_\_\_\_\_  
**Signature over Printed Name of Authorized Representative**

\_\_\_\_\_  
**Date**

# Technical Specifications

**Lot 16 : Closed-circuit Television Units**

No.	Item	Minimum Agency Specifications Unless Otherwise Specified	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
1	Dome Turret Type 2MP Camera with Audio	Kindly refer to the technical specifications attached as <b>Revised Annex D16.</b>	35	set			
2	Bullet Type Camera 2MP		20	set			

\* 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 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.

All tools, equipment, gadgets and electrically operated instruments should have Standard Manufacturers Manual and/or Datasheet/Specification Sheet/Brochure as indicated in Annex D16.

Instruction Manual is an instructional book or booklet that is supplied with almost all technologically advanced products such as electrical products.

Datasheet/Specification Sheet/Brochure is a document that summarizes the performance and other characteristics of a product, machine, component that comes along with the product from its release from the manufacturer.

**I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.**

<b>Name of Company/Bidder</b>	<b>Signature over Printed Name of Authorized Representative</b>	<b>Date</b>
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**REVISED  
ANNEX D16**

Lot No.	Lot	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
16	Closed-circuit Television Units	16-001	Dome Turret Type 2MP Camera with Audio	1/2.8" Progressive Scan CMOS H.265+/H.265/H.264+/H.264/MJPEG Color: 0.002 lux @(F1.4, AGC ON), 0 lux with IR 25fps/30fps(1920x1080) VCA functions; 3 streams 3D DNR; BLC; ICR; EXIR; DC12V&PoE Built-in micro SD/SDHC/SDXC slot Connect cloud service	Equipment		- Checking of specification and quantity (offered vs. actual) - Check package completeness - Functionality test - 24 hr burn-in test	Yes
16	Closed-circuit Television Units	16-002	Bullet Type Camera 2MP	1/2.8" Progressive Scan CMOS H.265+/H.265/H.264+/H.264/MJPEG Color: 0.002 lux @(F1.4, AGC ON), 0 lux with IR 25fps/30fps(1920x1080) VCA functions; 3 streams 3D DNR; BLC; ICR; EXIR; DC12V&PoE Built-in micro SD/SDHC/SDXC slot Connect cloud service Built-in microphone and speaker, Audio/Alarm I/O	Equipment	Evaluation of Brochure with picture and/or data sheet	- Checking of specification and quantity (offered vs. actual) - Check package completeness - Functionality test - 24 hr burn-in test	Yes

**I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.**

\_\_\_\_\_  
Name of Company/Bidder

\_\_\_\_\_  
Signature over Printed Name of Authorized Representative

\_\_\_\_\_  
Date

# Technical Specifications

**Lot 18 : Teaching and presentation equipment**

No.	Item	Minimum Agency Specifications Unless Otherwise Specified	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
1	Trainer table, long	Kindly refer to the technical specifications attached as Revised <b>Annex D18</b> .	25	pc			
2	Foldable Training Table		250	pc			
3	Computer Table		25	pc			
4	Conference Table, 14-seater		5	pc			
5	Executive Chair		75	pc			
6	Gas Lift Chair		250	pc			
7	Chair		500	pc			
8	Gang Chair		5	pc			
9	Reception Desk		5	pc			
10	Locker Cabinet		15	pc			
11	4-Layer Lateral Filing Cabinet		15	pc			
12	Full Height Glass Sliding Door Cabinet		15	pc			
13	5 layer open shelf cabinet		15	pc			

\* 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 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.

All tools, equipment, gadgets and electrically operated instruments should have Standard Manufacturers Manual and/or Datasheet/Specification Sheet/Brochure as indicated in Annex D18.

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Datasheet/Specification Sheet/Brochure is a document that summarizes the performance and other characteristics of a product, machine, component that comes along with the product from its release from the manufacturer.

**I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.**

\_\_\_\_\_  
Name of Company/Bidder

\_\_\_\_\_  
Signature over Printed Name of Authorized Representative

\_\_\_\_\_  
Date

# REVISED ANNEX D18

Lot No.	Lot	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
18	Office Furniture	18-001	Trainer table, long	2 layer folding table 140x60x75 cm Steel frame black MFC tabletop in wooden finish, 1 inch thick With 4-adjustable feet, double spring design	Furniture	Evaluation of Brochure with picture and/or data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	N/A
18	Office Furniture	18-002	Foldable Training Table	MDF top and modesty, Color: customized, flat edge Steel frame, Color: Gray Size: 140cm L x 50cm W x75cm H Two-layer With 4 caster wheels	Furniture		- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	N/A
18	Office Furniture	18-003	Computer Table	<ul style="list-style-type: none"> <li>• Dimension (LxW): 1200 x 600 mm</li> <li>• Material: MFC Worktop in Laminate Finish</li> <li>• Adjustable height: 2-lifting column for height in 700-1180mm, 2mm thick Rectangular steel tube, 4-preset LED memory controller</li> <li>• Motor: Single motor, 90-230V, speed in at least 20mm/s</li> <li>• 4-hidden movable wheels</li> <li>• Steel Legs in Powder Coat Finish</li> </ul>	Furniture		- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	N/A
18	Office Furniture	18-004	Conference Table, 14-seater	<ul style="list-style-type: none"> <li>• 14 pax Conference Table</li> <li>• Main Table: 3600mm L x 1200mm W x 750mm H</li> <li>• Finish: E1 standard, beech color</li> <li>• Top: 50mm thick board</li> <li>• Sidings in 2mm PVC edge band</li> <li>• Boat-shaped top</li> <li>• Wire management (optional)</li> <li>• With mid laminate accent</li> <li>• Metal legs</li> <li>• Adjustable feet leveler</li> </ul>	Furniture		- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	N/A

Lot No.	Lot	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
18	Office Furniture	18-005	Executive Chair	<ul style="list-style-type: none"> <li>● High back chair with armrest</li> <li>● Material: Polyurethane Upholstered seat and back</li> <li>● Armrest and starbase</li> <li>● Gas Lift: 75mm - 85mm</li> <li>● Caster Type: Polypropylene Plastic</li> <li>● Chair Seating Capacity: 120- 130kgs</li> <li>● Tilt-Lock Function</li> <li>● Pneumatic Height Adjustment</li> <li>● 360° Swivel Function</li> </ul>	Furniture	Evaluation of Brochure with picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	N/A
18	Office Furniture	18-006	Gas Lift Chair	<ul style="list-style-type: none"> <li>● Midback chair with armrest</li> <li>● Material: Fabric seat and mesh back</li> <li>● Armrest and starbase</li> <li>● Gas Lift: 75mm - 85mm</li> <li>● Caster Type: Polypropylene Plastic</li> <li>● Chair Seating Capacity: 120- 130kgs</li> <li>● Tilt-Lock Function</li> <li>● Pneumatic Height Adjustment</li> <li>● 360° Swivel Function</li> </ul>	Furniture		<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	N/A
18	Office Furniture	18-007	Chair	<ul style="list-style-type: none"> <li>● Monoblock Chair</li> <li>● Material: High Grade Plastic</li> <li>● Stackable</li> <li>● Color: White</li> <li>● Seat Width: Max. 383 mm</li> <li>● Seat Height: Max. 446 mm</li> <li>● Thickness: Max. 45 mm</li> <li>● Seat Depth: Min. 330 mm - Max. 400 mm</li> <li>● Backrest Height: Min. 800 mm - Max. 900 mm</li> </ul>	Furniture		<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	N/A

Lot No.	Lot	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
18	Office Furniture	18-008	Gang Chair	<ul style="list-style-type: none"> <li>● 5-seater</li> <li>● L290*W62*H76 (cm)</li> <li>● Seat Width: 46CM</li> <li>● Gross Weight: 26 KG</li> <li>● Weight-bearing: 150KG per seat</li> <li>● Backrest height: 52 cm</li> <li>● Gray</li> <li>● Materials: Arm and leg frames are steel with chrome plated finish, beam section steel, powder coated</li> <li>● Perforated seat design</li> </ul>	Furniture	Evaluation of Brochure with picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	N/A
18	Office Furniture	18-009	Reception Desk	Refer to Technical Specification of Item Code 18-009	Furniture		<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	N/A
18	Office Furniture	18-010	Locker Cabinet	<ul style="list-style-type: none"> <li>● 9-door locker</li> <li>● 3-Layer Utility Cabinet</li> <li>● Material: Steel Metal</li> <li>● Color: Powder coated Light Gray</li> <li>● Dimension: W900-1000 x D400-500 x H1850-2000 mm</li> <li>● Gauge: 22mm</li> <li>● with hasp provision for padlock and built-in locking mechanism</li> </ul>	Furniture		<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	N/A
18	Office Furniture	18-011	4-Layer Lateral Filing Cabinet	Dimension: W 900mm x D 450mm x H 1331 mm 4 drawer lateral cabinet Central lock Material: Steel A4/F4 File Storage Color: White drawers and brown/bronze sides	Furniture		<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	N/A



Lot No.	Lot	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
18	Office Furniture	18-012	Full Height Glass Sliding Door Cabinet	<ul style="list-style-type: none"> <li>● Steel Cabinet with Glass Sliding Door</li> <li>Width: 450 cm (outer side of the cabinet)</li> <li>Depth: 90 cm +-10% (outer side of the cabinet)</li> <li>Height: 185 cm +- 10% (from floor to top edge of the cabinet)</li> <li>● A4 /F4 file storage</li> <li>● 4 adjustable shelves, 5 levels</li> <li>● Centralized Locking Mechanism</li> <li>● Color: Textured Light Grey</li> </ul>	Furniture	Evaluation of Brochure with picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	N/A
18	Office Furniture	18-013	5 layer open shelf cabinet	Dimension: Max. 1800(H) x 900(W) x 400(D) mm 5 Layer open shelf, adjustable shelf 0.6mm thickness Steel material Textured light gray	Furniture		<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	N/A

**I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.**

\_\_\_\_\_  
Name of Company/Bidder

\_\_\_\_\_  
Signature over Printed Name of Authorized Representative

\_\_\_\_\_  
Date

**REVISED**

<b>Name of The Furniture</b>	<b>Trainer Table, Long</b>
<b>Item Code</b>	18-001
<b>Lot</b>	Office Furniture

**Sample Image:**



## TECHNICAL SPECIFICATION

<b>Name of The Furniture</b>	<b>Reception Desk</b>
<b>Item Code</b>	18-009
<b>Lot</b>	Office Furniture

**Specification:**

- Main Table: 2200mm L x 600mm D x 1100mm H
- Material: 25mm E1 Resistant Board + Plywood d
- Cabinet carcass in 18mm thick HPL laminated E1 board
- Sidings in 2mm PVC edge band

**Features:**

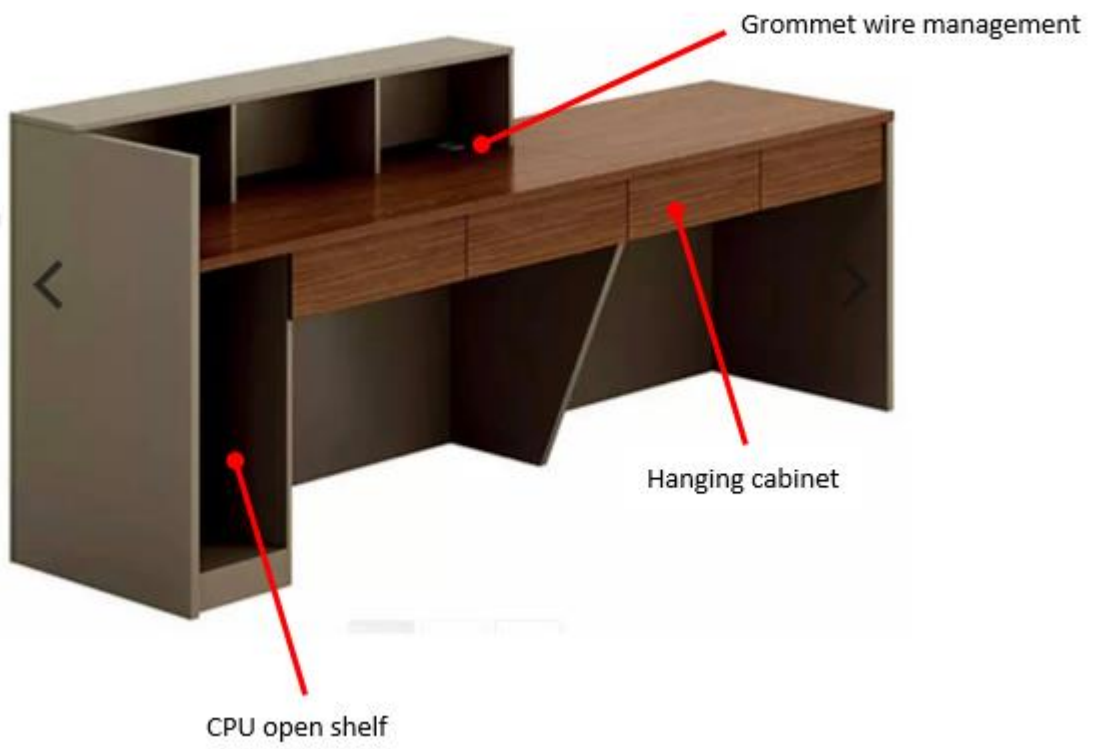
- With built in grommet wire management
- (4) Hanging Drawer cabinet with lock and key
- Full extension soft close drawer guide
- With 1 CPU open shelves storage
- Metal Brackets
- Adjustable feet leveler
- Installation and maintenance

**Sample Image:**



Front view

Back View



*Picture for reference only*

**REVISED**

<b>Name of The Furniture</b>	<b>Full Height Glass Sliding Door Cabinet</b>
<b>Item Code</b>	18-012
<b>Lot</b>	Office Furniture

**Sample Image:**

