

Section VII. Technical Specifications

Notes for Preparing the Technical Specifications

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

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

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

Sample Clause: Equivalency of Standards and Codes

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

Reference to brand name and catalogue number should be avoided as far as possible; where unavoidable they should always be followed by the words "*or at least equivalent.*" References to brand names cannot be used when the funding source is the GOP.

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

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



Technical Specifications

Item No.	Specification	Statement of Compliance
		<p><i>[Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data 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.]</i></p>

LOT 1: ICT EQUIPMENT (P2,300,000.00)

1	<p>DESKTOP COMPUTER SET</p> <ul style="list-style-type: none"> - Processor: Intel Core i7-13700K/KF, Total Cores 16, Total Threads 24, Max Turbo Frequency 5.40 GHz - Mother Board: Intel Z790 LGA 1700 ATX motherboard with 16 + 1 power stages, DDR5 memory support, four M.2 slots, PCIe 5.0 x16 Safe Slot with Q-Release, Wi-Fi 6E, USB 3.2 Gen 2x2 Type-C rear I/O port and additional front-panel connector with PD 3.0 up to 30W, AI Overclocking, AI Cooling II, and Aura Sync RGB lighting - Graphics Card: NVIDIA GeForce RTX 4070 SUPER, GPU Memory Size: 12, GPU Memory Type: Gddr6, Cooling System: Dual Fan - GPU Boost Clock, Speed: 2550, Bus Standard PCI Express 4.0, OpenGL: OpenGL 4.6, Video Memory 12GB GDDR6X, Engine Clock, OC mode: 2550 MHz (Boost Clock), Default mode: 	
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	<p>2520 MHz (Boost Clock), CUDA Core 7168, Memory Speed 21 Gbps, Memory Interface 192-bit, Resolution Digital Max, Resolution 7680 x 4320, Maximum Display Support 4, NVlink/Crossfire Support</p> <ul style="list-style-type: none"> - Power Supply: Power Watt 850W, PCIe 5.0 and ATX 3.0 Compatible - PC Casing: Color: black, Case Size Small Tower, Motherboard Support Micro-ATX & Mini- ITX, Radiator Support (Top) - Storage: 2TB 990 PRO NVMe - Memory Ram: (2 pcs) Memory Type DDR5, Capacity 32GB, Tested Speed (XMP/EXPO) 6000 MT/s, SPD Speed (Default) 4800 MT/s - CPU Cooler: Water Block, Radiator, Radiator Material: Aluminum, Tube: Sleeved Rubber tube, Compatibility Intel: LGA 1700, 1200, 115x - Keyboard and Mouse: Standard QWERTY layout - Operating System: License Windows 11 Pro 64 bit - MS Office: License Microsoft Office 2021 - Monitor Screen Size: 27", Resolution: 2560 x 1440, Refresh Rate: 180 Hz, Response Time (G2G) 1ms, Aspect Ratio: 16:9, Color: Black 	
4	<p>BRANDED ALL-IN-ONE PERSONAL COMPUTER</p> <ul style="list-style-type: none"> - 23.8inch FHD, IPS - Intel Core i7-13th Gen Processor - 16GB RAM - 1TB SSD - Integrated Graphics Card - Integrated Gigabit LAN, Wifi 6 + BT 5 - Ports: USB, HDMI, Headphone/microphone combo jack (3.5mm) - Keyboard and Mouse - Integrated HD Camera - Windows 11, bundled with MS Office 	
5	<p>BRANDED ALL-IN-ONE PERSONAL COMPUTER</p> <ul style="list-style-type: none"> - 21.5inch FHD IPS 250nits - Core i3-13th Gen Processor - 8GB RAM - 1TB SSD - UHD Graphics - Integrated Gigabit LAN, Wifi 6 + BT 5 - Ports: USB, HDMI, Headphone/microphone combo jack (3.5mm) - Keyboard and Mouse - Integrated HD Camera - Windows 11, bundled with MS Office 	



LOT 2: ELECTRICAL EQUIPMENT (P700,000.00)

2	<p>BASIC ELECTRO-MECHANICAL TRAINING EQUIPMENT</p> <ul style="list-style-type: none">-1- PLC Unit, Power Supply Unit, Compressor & Service Unit- Accessories (Fittings & Tubings)- Cylinder (Double/Single-Acting)- Solenoid Valves (Monostable and Bistable)	
6	<p>AC/DC TRAINING BOARD WITH COMPLETE ACCESSORIES AND TRAINING MATERIALS</p> <p>Full-size breadboard (10 sets) - Total 830 holes, Standard 2.54mm (0.1") spacing between two holes, Dimension: 16.5x5.5cm, Common Rating: 1A @ 5V or 5 Watt</p> <p>Resistor Kit 1/4W Metal Film (5 sets) -20 pieces each of the following rating 10Ω, 22Ω, 47Ω, 100Ω, 150Ω, 200Ω, 220Ω, 270Ω, 330Ω, 470Ω, 510Ω, 680Ω, 1KΩ, 2KΩ, 2K2Ω, 3K3Ω, 4K7Ω, 5K1Ω, 6K8Ω, 10KΩ, 20KΩ, 47KΩ, 51KΩ, 68KΩ, 100KΩ, 220KΩ, 300KΩ, 470KΩ, 680KΩ, 1MΩ</p> <p>Digital Oscilloscope (3 units) -150MHz Bench Oscilloscope, 2 Analogue Channels</p> <p>Soldering Iron with Hot air gun (4 units) - Plug Type Type F-Schuko plug, Type G - British 3- pin, Tasks Supported Desoldering / Soldering Wattage 700W, Input Voltage 220 → 240V, Soldering Tip Temperature 480°C, Number of Outputs 2, Display Type LED, ESD Safe</p> <p>Transistors BJT (20 pcs) -NPN and PNP transistors, used in switching and amplification.</p> <p>Transistors FET (20 pcs) - NPN and PNP transistors, used in switching and amplification</p> <p>Desktop Computer (2 sets) - Intel Core i7-12700 16GB DDR4 3200 MHz UDIMM 1TB M.2 2280 PCI-E SSD NVIDIA GeForce RTX 3080 with 10 GB of DDR6 Windows 11 Home 850Watt ATX 3.0, 80 PLUS GOLD Certified, Fully Modular Power Supply x 1</p>	

	DDR4 MOTHERBOARD x 1 23.8" IPS 180Hz FLAT LED Monitor High-Resolution Multimeter (1 pc) - High-accuracy multimeter with PC connectivity	
***** Nothing Follows*****		

Additional Requirements:

The technical specification that shall be submitted by the Bidder shall include, among others:

- a. *product specifications as supported by brochures or catalogues;*
- b. *bidder's certification that it has after-sales support in Region X;*
- c. *bidder's certification for one (1) year warranty;*
- d. *certification from manufacturer/distributor that bidder is authorized dealer for Item No. 2, 4, 5 & 6; and*
- e. *certification of Service Center within the Region X.*