

TECHNICAL SPECIFICATIONS

Supply, Delivery, Installation, and/or Configuration of Various ICT Requirements for BAFE Personnel for CY 2025

I. RATIONALE/PURPOSE/OBJECTIVE

The acquisition of ICT goods under this procurement will establish high-end technology devices that will provide a good-quality media output necessary to deliver the daily office operations of the Bureau. This will also ensure continuous upgrades to the BAFE ICT infrastructure. With this, the Bureau of Agricultural and Fisheries Engineering (BAFE) intends to procure the following:

- 1) **Smart Interactive TV.** A Smart Interactive TV is ideal for collaborative office environments, especially in conference rooms or training areas. It allows for seamless video conferencing, presentations, and real-time collaboration through screen sharing, touch interactions, and cloud-based applications. The large display enhances visibility for group discussions and can integrate with productivity software for interactive meetings.
- 2) **High-end Desktop.** A high-end desktop is ideal for power users which require strong computational performance, such as data analysts, designers, and software/system developers. Desktops offer more powerful processors, greater memory, and enhanced cooling, making them more suitable for running heavy software like CAD, video editing tools, and complex simulations while maintaining consistent performance over long durations.
- 3) **High-end Laptop.** A high-end laptop offers mobility without sacrificing performance. These laptops typically come with high-performance processors, ample RAM, and top-notch displays, allowing users to handle demanding software like design tools, spreadsheets, or multitasking with ease.
- 4) **Mid-Range Laptop.** A mid-range laptop strikes a balance between performance and affordability, making it suitable for general office tasks like word processing, spreadsheets, video calls, and email management. It is a practical choice for employees who don't require advanced computing power but need reliable performance for everyday tasks and mobility.
- 5) **Information Kiosk.** As a regulatory agency, it is important to have an information kiosk to be located in a strategic area where external clients can easily access various information of the frontline services and other services of the Bureau.
- 6) **Geotagging Device.** Geotagging devices are designed to capture and record an object, person, or event's geographic location (latitude, longitude, and sometimes altitude). They are primarily used to enhance data accuracy, enable location-based services, and provide context to physical spaces in a variety of



sectors such as research, navigation, environmental monitoring, and asset tracking.

- 7) **HD Wireless Projector.** An HD wireless projector provides the flexibility to display presentations, videos, and other media on a large screen without being tethered to a computer or other devices via cables. This is perfect for meetings, conferences, and training sessions where large groups need to view the same material. High-definition projection ensures clear visuals, while wireless connectivity allows for seamless transitions between devices, fostering more interactive and efficient presentations.
- 8) **Computer Monitor.** Upgrading the computer monitor is essential in the office as it directly enhances productivity, comfort, and workflow efficiency. A high-resolution monitor provides clear, sharp visuals, making tasks like document editing, data analysis, and creative design easier and more accurate. Additionally, improved display quality reduces eye strain, promotes better focus, and supports multitasking, all of which contribute to a more efficient and comfortable work environment.
- 9) **External Hard Drive.** It provides ample storage for backing up important files, securing data, and enabling easy file transfer. It offers quick access to large files without relying on cloud storage, which is beneficial for data mobility and efficient collaboration. Additionally, it enhances data security by ensuring critical information is safely stored and easily recoverable, which is essential for maintaining business continuity and minimizing the risk of data loss.
- 10) **Power Station for Devices.** In order to keep vital equipment like computers, cameras, and mobile devices charged and ready, a Power Station for Devices provides a dependable power source throughout the office. Its enormous capacity and several charging outlets make it especially helpful for lengthy meetings, events, or fieldwork. It is portable, effective, and guarantees that gadgets are always working, which reduces disruptions and boosts productivity.
- 11) **IP Phone with License.** This ensures continued connectivity through communication with other DA Offices.
- 12) **All-in-One Printer.** An all-in-one printer combines printing, scanning, copying, and sometimes faxing in a single device. This versatility is essential in an office environment, as it reduces the need for multiple machines, saving space and costs. It enhances efficiency by enabling quick printing, document scanning, and copying from a single location, supporting tasks such as producing handouts for meetings, scanning contracts, or printing presentations.
- 13) **Multifunction Colored Photocopier.** A multifunction colored photocopier is an essential office tool for environments with high printing demands. It supports printing, copying, scanning, and sometimes faxing in both color and



black-and-white. While it offers full-color capabilities, it is especially efficient for handling large volumes of black-and-white documents—such as reports, manuals, and internal communications—by optimizing speed and reducing color ink usage. This makes it a versatile and cost-effective solution for daily office tasks.

- 14) **QR Printer with Sticker.** It will enhance office organization by quickly producing QR code stickers, which enable access to information by scanning that can be used for tracking inventory, documents, and visitor management. It boosts accessibility and simplifies data retrieval.
- 15) **3 in 1 Document Printer (Continuous).** A printer is necessary for creating tangible copies of documents for client contacts, meetings, and record-keeping. Also, it allows for quick, reliable access to physical documents, supports collaboration, and facilitates tasks like signing contracts, sharing reports, and distributing informational materials.
- 16) **Interchangeable-lens Camera with Dry Cabinet and Various Lenses and Equipped with Cleaning Tools.** An interchangeable lens camera is critical for capturing high-quality images and videos for presentations, marketing materials, and internal documentation. Switching lenses provides flexibility for different shooting conditions and requirements, such as wide-angle shots for office setups or zoom lenses for detailed product images. The dry cabinet ensures the camera and lenses are stored in optimal conditions, protecting them from moisture and dust, thus prolonging their lifespan. Also, with cleaning tools it helps keeping the devices like cameras, projectors, and other sensitive equipment clean is crucial to maintaining their performance and longevity. Cleaning tools ensure that lenses and surfaces remain free of dust and smudges, which can affect image quality. This contributes to professional-grade visual outputs and helps prevent frequent repairs or replacements due to neglect.
- 17) **Hand-held Action Camera.** A Hand-held Action Camera is a versatile tool for capturing dynamic office content, such as team events, tutorials, or fieldwork documentation. Its compact, durable design makes it ideal for on-the-go filming, while high-resolution video ensures professional quality.
- 18) **Body Camera.** Body cameras are important for enhancing accountability, transparency, and safety, providing objective evidence of interactions, promoting trust, and supporting fair and accurate documentation specially on field validation, monitoring and evaluating projects.
- 19) **Group Video Conference Bundled with Microphone and Speaker.** In today's highly interconnected work environment, communication between teams, clients, and stakeholders across different locations is essential. A group video conference bundle ensures high-quality virtual meetings, facilitating collaboration and decision-making. With integrated microphones and speakers, everyone can participate clearly, ensuring that ideas are effectively communicated. This reduces miscommunication, improves teamwork, and

enhances productivity.

- 20) **Lapel Microphone.** A Lapel Microphone is an excellent tool for clear, hands-free audio capture during presentations or virtual meetings in the office. Its discreet design allows for natural movement and minimizes background noise, making it perfect for professional-quality sound. This microphone is especially valuable for training videos or webinars, where clear, consistent audio is key. Compact and easy to use, it's a practical, versatile choice for enhancing communication and engagement across various office activities.
- 21) **Conference Microphone and Speaker.** A Conference Microphone and Speaker provides seamless, high-quality audio for meetings, ensuring all participants are heard clearly without the need to crowd around a single device. It captures voices from multiple directions and delivers clear sound, enhancing virtual and in-person collaboration.
- 22) **Portable Speaker with Microphones (Wireless).** Clear, hands-free conversations during meetings and presentations are made possible by a portable speaker equipped with wireless mics, which improves office communication. Additionally, it's a perfect piece of equipment to utilize in an area without electricity.
- 23) **Studio Sound Card (Set).** A Studio Sound Card enhances office audio quality, making virtual meetings clearer. It supports multiple devices, reducing setup hassle and improving productivity.
- 24) **Digital Audio Recorder.** A digital audio recorder captures high-quality sound, making it ideal for recording interviews, meetings, lectures, or events. It ensures accurate documentation of important conversations and often includes a digital panel display for easy operation and playback management.
- 25) **Audio Recorder.** It enables capturing high-quality audio for recording interviews, meetings, or events, making it easier to document important conversations accurately for future reference.
- 26) **Portable Power Supply (Power Bank).** It provides reliable portable power, ensuring your devices stay charged throughout the day. Whether you're traveling, working remotely, or facing an emergency, it keeps your smartphone, tablet, or other gadgets powered up whenever you need them.

II. APPROVED BUDGET FOR THE CONTRACT (ABC)

The ABC for the **Supply, Delivery, Installation, and/or Configuration of Various ICT Equipment for BAFE Personnel for CY 2025** is **Ten Million Seven Hundred Fifty-Six Thousand Pesos Only (Php 10,756,000.00)** inclusive of all applicable government taxes and charges, professional fees, and all other costs.

III. PROJECT/DELIVERY SITE

- The project shall cover the **supply, delivery, installation and/or configuration of various ICT Equipment.**
- All items shall be supplied and delivered at **BAFE, Sugar Center, Annex II Building Extension, North Avenue, Diliman, Quezon City.**

IV. PRODUCTION AND/OR DELIVERY SCHEDULE

Goods and services shall be delivered within **Ninety (90) calendar days** from the conforme of the Notice to Proceed (NTP).

V. SUMMARY OF ITEMS BY LOT

LOT NO.	ITEM/PARTICULAR	APPROVED BUDGET FOR THE CONTRACT
1	1. Smart Interactive TV 2. Information Kiosk 3. Multifunction Colored Photocopier 4. HD Wireless Projector	2,070,000.00
2	1. High-end Desktop 2. High-end Laptop 3. Mid-Range Laptop 4. Geotagging Device	4,775,000.00
3	1. Hand-held Action Camera with Stabilizer 2. IP Phone with Licenses 3. Interchangeable-lens Camera with Dry Cabinet and Various Lenses, Equip with Cleaning Tools 4. Body Camera	1,180,000.00
4	1. Lapel Microphone 2. Conference Microphone and Speaker 3. Portable Speaker with Microphones (Wireless) 4. Studio Sound Card (Set) 5. Audio Recorder 6. Group Video Conference bundled with Microphone and Speaker 7. Digital Audio Recorder	887,000.00
5	1. All-in-One Printer (with 3 sets of Ink)	1,844,000.00

	2. Computer Monitor 3. External Hard Drive 4. Power Station for Devices 5. QR Printer with Sticker 6. 3 in 1 Document Printer (Continuous) 7. Portable Power Supply (Power Bank)	
	TOTAL	10,756,000.00

VI. ITEM SPECIFICATIONS AND COST ESTIMATES

PARTICULAR	QTY	UNIT COST (Php)	TOTAL AMOUNT (Php)
LOT NO. 1			
1.) SMART INTERACTIVE TV <ul style="list-style-type: none"> At least 86" TFT LCD Module with LED Backlight Ultra HD 3840 x 2160 4K resolution or better screen resolution Built-in Processor: <ul style="list-style-type: none"> At least Dual-core processor with at least 1.5GHz clock speed or equivalent processor At least 4GB DDR3 RAM At least 32GB storage With wireless module provides a dual-band 2.4GHz/5GHz With WiFi network, as well as Bluetooth support Additional PC Module: <ul style="list-style-type: none"> At least Quad-core processor with at least 2.1 GHz Base Frequency and at least 4 MB Cache processor At least 8th or latest available and compatible processor generation At least 8GB DDR4 memory At least 128GB SSD storage, At least Windows 10 Operating system or latest compatible OS Touch: <ul style="list-style-type: none"> IR recognition or better technology At least 32767 x 32767 resolution 20 points touch and 10 points writing At most response time: 30ms Input & Output: <ul style="list-style-type: none"> At least with 3 HDMI 2.0 	1	550,000.00	550,000.00

PARTICULAR	QTY	UNIT COST (Php)	TOTAL AMOUNT (Php)
<ul style="list-style-type: none"> At least with 1 VGA At least with 1 VGA Audio At least with 1 MIC At least with 3 USB 2.0 At least with 2 USB Accessories: <ul style="list-style-type: none"> Rack stand 1x20m HDMI cable USB-Type HD Camera and Wireless Mouse & Keyboard Warranty: At least 1 Year Manufacturer's warranty With Operations Manual			
2.) INFORMATION KIOSK <ul style="list-style-type: none"> Panel Size: At least 55 MTFT-LCD (MULTI TIME FRAM TOOLS) CPU: at least core 15 (At least 6 Cores; 12 Threads; 4.30 GHz Turbo Frequency) System bus frequency: At least 1600MHz Graphics Card: Must be integrated Network card: At least an Integrated 10/100/1000M adaptive Memory: At least 8Gb Hard Disk: At least 512 GB SSD WIFI: Integrated Operating system: At least Windows 10 HDMI output: At least 1 USB2.g: At least 6 Ethernet 1000Mbps LAN: At least 1 Audio(L/R) input: At least 1 Audio(L/R) output: At least 1 Speaker: At least 2x10w (s ohm) Touch Panel: Infrared touch Installation: Floor-standing (Mobile/Portable) 	1	320,000.00	320,000.00
3.) MULTIFUNCTION COLORED PHOTOCOPIER <ul style="list-style-type: none"> Memory: at least 2GB Storage: at least 64GB Network: Must have standard network of 1000Base-T/Base-TX-T Wireless LAN Supply Capacity: at least 1,200 sheets with 2x550-sheet 	1	960,000.00	960,000.00

PARTICULAR	QTY	UNIT COST (Php)	TOTAL AMOUNT (Php)
<ul style="list-style-type: none"> cassettes and 1x100-sheet multi-purpose tray • Output Capacity: at least 500 sheets with stapling function (staple-free up to 8 pages) • Can support standard sizes • Print speed: at least 26ppm • Print Resolution: at least 600x600dpi • Can support multiple operating systems • Copy speed: at least 26ppm • Copy Resolution: at least 600x600dpi • Multiple copies: maximum of 999 copies • Scanning Paper Capacity: maximum of 100 sheets • Scan Speed: 300x300dpi for 1-sided and 2-sided scanning • Scan Resolution: at least 600x600dpi • At least 1-year warranty • At least 2 years of after-sales service support • Inclusive of 1-year supply of toner back-up and maintenance box if applicable 			
4.) HD WIRELESS PROJECTOR Display Technology: 3LCD, RGB liquid crystal shutter Native Resolution: At least 1920 x 1080 Brightness: At least 3,000 lumens (White and Colour Light Output) Lamp Type: At least 214W UHE (Ultra High Efficiency) Projection Size: At least 30 inches to 300 inches Throw Ratio: At least 1.04 - 1.26 (Wide to Tele) Zoom: At least 1.2x Optical Keystone Correction: Auto vertical At least $\pm 30^\circ$, Horizontal At least $\pm 20^\circ$ Connectivity: <ul style="list-style-type: none"> • HDMI (MHL-enabled) • With USB 2.0 Type-A (for PC-free presentations) • With USB 2.0 Type-B (for USB Display and mouse control) • Wireless LAN (IEEE 802.11b/g/n) • Warranty: at least 1-year warranty 	3	80,000.00	240,000.00
LOT NO. 2			
1.) HIGH-END DESKTOP	11	150,000.00	1,650,000.00

PARTICULAR	QTY	UNIT COST (Php)	TOTAL AMOUNT (Php)
<p><u>Display:</u></p> <ul style="list-style-type: none"> • Size: at least 30 inches • Aspect Ratio: at least 16:9 • Resolution: at least 1920 x 1080 • Refresh Rate: at least 180 Hz • Response Time: at least 1ms • Ports: must have at least 1 x Displayport 1.2 and at least 2 x HDMI 1.4 Ports (HDMI Cable Included) <p><u>Central Processing Unit:</u></p> <ul style="list-style-type: none"> • Processor: <ul style="list-style-type: none"> ○ Cores: at least 16 ○ Threads: at least 22 ○ At least 13th generation • Memory: At least 32GB RAM upgradable to a maximum of 64 GB • Storage: At least 1 Terabyte (Solid State Drive) • Graphics: At least 4 Gigabyte • Other Inclusion: Perpetual office productivity software • Preferably Windows Operation System <p>Warranty: at least 1 year Package included: Mouse and Keyboard</p>			
<p>2.) HIGH-END LAPTOP</p> <p>Processor:</p> <ul style="list-style-type: none"> • At least 13th Generation • Total Cores: at least 16 • Threads: at least 24 • Turbo Frequency: at least 4.9 GHz <p>Graphics:</p> <ul style="list-style-type: none"> • At least NVIDIA GeForce RTX 4050 • At least 6GB dedicated VRAM <p>Memory: At least 32GB DDR IV RAM Storage: At least 1TB HDD and 512GB NVMe PCIe SSD Screen Size: At least 15.6" inches FHD Screen Resolution: At least 2560x1600 pixels Refresh Rate: At least 144Hz Ports: Must include Thunderbolt 4, USB Type-C, HDMI, and</p>	9	150,000.00	1,350,000.00

PARTICULAR	QTY	UNIT COST (Php)	TOTAL AMOUNT (Php)
<p>Ethernet port</p> <p>Connectivity: Must support Wi-Fi 6 or newer</p> <p>Endpoint Specification:</p> <p>Anti Ransomware</p> <p>Email Protection</p> <p>IDS/IPS Protection</p> <p>Firewall Protection</p> <p>Phishing Protection</p> <p>GoDeep AI</p> <p>Spam Protection</p> <p>Web Filtering</p> <p>Application Control - Blocklisting and Safelisting</p> <p>Location Tracking -Stolen Device</p> <p>Other Inclusions:</p> <ul style="list-style-type: none"> At least 1-year warranty Perpetual office productivity With user manual, laptop bag, charger, and mouse 			
<p>3.) MID-RANGE LAPTOP</p> <ul style="list-style-type: none"> Processor <ul style="list-style-type: none"> Cores: at least 8 Threads: at least 16 Frequency: at least 2.3 GHz Memory: at least 8 GB RAM upgradable to 32 GB Storage: at least 512 GB Screen Size: At least 39.6cm Screen Resolution: at least 1920x1080 At least 1-year warranty With the user manual, laptop bag, charger, and mouse 	11	75,000.00	825,000.00
<p>4.) GEOTAGGING DEVICE</p> <p>Display</p> <ul style="list-style-type: none"> at least 10.2-inch (diagonal) LED backlit Multi-Touch display at least 2160×1620-pixel resolution at 264 pixels per inch <p>Camera</p>	19	50,000.00	950,000.00

PARTICULAR	QTY	UNIT COST (Php)	TOTAL AMOUNT (Php)
<ul style="list-style-type: none"> at least 8 MP Front camera at least 13 MP Rear camera Digital zoom up to 5x compatible to Photo geotagging with HDR for photos Video Recording <ul style="list-style-type: none"> at least 1080p HD video recording at 25 fps and 30 fps at least 720p HD video recording at 30 fps at least 3x video zoom Slo-mo video support for at least 720p at 120 fps FaceTime HD Camera <ul style="list-style-type: none"> at least 12MP Ultra Wide camera, 122° field of view must have HDR for photos at least 1080p HD video recording at 25 fps, 30 fps or 60 fps with a Time-lapse video with stabilisation with Extended dynamic range for video up to 30 fps with Cinematic video stabilisation (at least 1080p and 720p) Connectivity: <ul style="list-style-type: none"> Wi-Fi model Wi-Fi (802.11a/b/g/n/ac); dual band (at least 2.4GHz and 5GHz); HT80 with MIMO Bluetooth 4.2 technology Memory: <ul style="list-style-type: none"> at least 8 GB RAM at least 256 GB ROM with card slot Battery: at least 8000 mAh, non-removable Processor: CPU at least Octa-core (1x3.00 GHz Cortex-X2 & 3x2.50 GHz Cortex-A710 & 4x1.80 GHz Cortex-A510) Package Contents: <ul style="list-style-type: none"> 1 x Tablet PC 1 x Charger 1 x Type-C cable 1 x User manual Warranty: at least 1-year warranty			
LOT NO. 3			
1.) HAND-HELD ACTION CAMERA WITH STABILIZER <ul style="list-style-type: none"> Image Resolution: At least 72 MP (11904x5952) 18MP (5888x2944) 	5	52,000.00	260,000.00

PARTICULAR	QTY	UNIT COST (Php)	TOTAL AMOUNT (Php)
<ul style="list-style-type: none"> Video Resolution: At least 360-8K/30fps, 5.7K/60fps, 4K/100fps Audio Format: At least 48 kHz, 16bits, AAC ISO Range: At least 100-64000 Battery: At least 2290 mAh, longer battery life Lightweight and Waterproof With Bluetooth, Wifi With flow-state stabilization With wind noise reduction Accessories: <ul style="list-style-type: none"> With 2 extra battery With fast charger With screen protector With lens cap With standard lens guard With case With multi function tripod handle With camera stick With Bendable camera mount Warranty <ul style="list-style-type: none"> At least 1-year warranty 			
2.) IP PHONE WITH LICENSES <ul style="list-style-type: none"> Unit, power adapter, and licenses Multiple VoIP protocol Support, Integrated Ethernet Switch VoIP Compatible Flat forms 3.7-Inch Graphical Display Speakerphone: Yes Line Features: Caller ID, Call Waiting, Call Forwarding, Call Transfer, Call Hold Programmable: Yes Plug and Play Ready Additional Function: Intercom, Call Timer, Music on hold, Hands-Free Profile at least 1-year warranty 	9	70,000.00	630,000.00
3.) INTERCHANGEABLE-LENS CAMERA WITH DRY CABINET AND VARIOUS LENSES, EQUIPPED WITH CLEANING TOOLS <p>Body: At least 33.0 MP full-frame</p>	1	215,000.00	215,000.00

PARTICULAR	QTY	UNIT COST (Php)	TOTAL AMOUNT (Php)
Zoom lens: At least 150mm-500mm <ul style="list-style-type: none"> At least ISO 100 - 51200 At least 4K up to 60p, 10-bit video recording At least Full HD 120 fps for slow-motion capture Touchscreen LCD Wi-Fi, Bluetooth, USB-C 3.2, and Ethernet connectivity USB streaming up to 4K With extra battery and battery charger With memory card 128 gb With camera bag With advanced image resolution, stabilization, and autofocus With Gimbal Stabilizer (lightweight, Bluetooth shutter control, and 3rd-Gen stabilization algorithm) Accessories: camera bag, dry cabinet and equipped with cleaning tools At least 1-year warranty 			
4.) BODY CAMERA <ul style="list-style-type: none"> Resolution: At least 1080p HD recording Storage: At least 128 GB internal storage Battery Life: 8-10 hours of continuous recording Field of View: At least 140° wide angle Night Vision: With infrared LEDs for night recording Wi-Fi: with mobile transfer Accessories: mounting clips, charging cable, and body camera holder Additional Features: Loop recording, motion detection, built-in speaker, microphone, and water resistance At least 1-year warranty 	5	15,000.00	75,000.00
LOT NO. 4			
1.) LAPEL MICROPHONE <p>Power Source: Built-in Li-ion Battery</p> <p>Battery Details: at least 1 CR2 battery required</p> <p>Battery Features: Battery Indicator Light</p> <p>Audio Specifications:</p> <ul style="list-style-type: none"> Signal-to-Noise Ratio: at least 80 dB Frequency Range: at least 2.4G Frequency Response: at least 80 KHz Audio Sensitivity: at least 90 dB 	11	6,000.00	66,000.00

PARTICULAR	QTY	UNIT COST (Php)	TOTAL AMOUNT (Php)
Microphone Specifications: <ul style="list-style-type: none"> • Form Factor: Lavalier • Polar Pattern: Omnidirectional • Number of Channels: at least 1 Connectivity: <ul style="list-style-type: none"> • Connectivity Technology: at least 2.4G wireless technology • Connector Type: at least 3.5 mm Jack Compatible Devices: Camcorder, Camera, Smartphone <ul style="list-style-type: none"> • Warranty: at least 1-year 			
2.) CONFERENCE MICROPHONE AND SPEAKER System Parameters: <ul style="list-style-type: none"> • Working Frequency: at least 640-790 MHz (U+Z compatible) • Modulation Method: FM (digital compression interleaving) • Frequency Stability: at least $\pm 0.005\%$ • Maximum Deviation: at least ± 45 kHz • Dynamic Range: at least 96 dB • Operating Distance: at least 100 m (open area) • Intermediate Frequency: Digital compression ratio expansion • Sensitivity: at least 12 dBuV Transmitter Parameters: <ol style="list-style-type: none"> 1. Built-in antenna 2. Output Power: at least 10 mW (adjustable) 3. Spurious Suppression: at least -60 dB 4. Power Supply: at least 2 x AA 1.5V alkaline batteries 5. Battery Capacity: at least 5000mAh Package Includes: <ul style="list-style-type: none"> • 4 pcs Gooseneck Microphones • 1 pc Receiver System • 1 pc Aluminum Carrying Case Warranty: at least 1-year	5	26,000.00	130,000.00
3.) PORTABLE SPEAKER WITH MICROPHONES (WIRELESS) SPEAKER <ul style="list-style-type: none"> • Sound and Audio Output • Total RMS Stereo Mode Power: at least 2000W RMS (Stereo Mode) 	3	49,000.00	147,000.00

PARTICULAR	QTY	UNIT COST (Php)	TOTAL AMOUNT (Php)
<ul style="list-style-type: none"> ● Front Channel (30% THD): at least 500W per channel (2 Ohm, 1kHz, 30% THD) ● Subwoofer Channel (30% THD): at least 500W per channel (2 Ohm, 100Hz, 30% THD) ● PMPO Output Power: at least 22,000W ● Amplifier Type: at least 2.1 Channel Digital Amp ● Compatible Connectivity: wireless connectivity, android, Bluetooth and iOS ● Playback and Formats: ● Disc Playback: CD-R / RW <ul style="list-style-type: none"> ○ Format: CD-DA / MP3 ● USB Support: <ul style="list-style-type: none"> ○ Port: Double USB (Play + Rec / Play) ○ USB Standard: USB 2.0 (Full Speed) ○ Media File Format Support: MP3 ○ Battery Charge: No promote (500mA) ● Playback Capacity: at least 4GB ● Power and Consumption ● Power Supply: at least AC 220 - 240V, 50Hz ● Power Consumption: <ul style="list-style-type: none"> ○ Normal Use: at least 200W ○ Standby: at least 0.5W ○ Bluetooth Standby: at least 0.6W ● Timer Functions: Sleep, Clock, Play Timer, Rec Timer ● Auto Power Off: Yes ● Warranty: at least 1-year <p>MICROPHONE</p> <ul style="list-style-type: none"> ● Wireless Frequency: at least 1920 MHz to 1930 MHz ● Battery Type Required: Rechargeable: at least 1 x AA Ni-MH Dry cell: at least 1 x AA alkaline ● Battery Life: at least 8 hours (Ni-MH) at least 6 hours (alkaline) ● Microphone Frequency Response: at least 100 Hz to 15kHz ● Warranty: at least 1-year 			
4.) STUDIO SOUND CARD (SET) <ul style="list-style-type: none"> ● Built-in Microphone: at least 1 ● Audio Crossover: Full-Range 	2	15,000.00	30,000.00

PARTICULAR	QTY	UNIT COST (Php)	TOTAL AMOUNT (Php)
<ul style="list-style-type: none"> • Output Rate: at least 48KHz, 16-bit audio resolution • Compatible Devices: Desktop, Laptop, iOS, and Android phones. • Output adoption rate: at least 48KHz • Number of digits: at least 16 digits • Multi-speaker mode: at least 30 • Audio interface: at least 35mm • Power supply: at least DC5V 1A • Battery capacity: at least 1200 mAh • Package Includes: X 1 Live Sound Card X 1 USB Cable X 2 Audio Cables X 1 User Manual • Warranty: at least 1 year 			
5.) AUDIO RECORDER <ul style="list-style-type: none"> • Storage: at least 8GB internal memory • Display: LCD screen with real-time display, including day and time settings • Special Functions: A-B repeat, music playback, key lock, low battery indicator • Recording Format: MP3, at least 192 Kbps bit rate • Recording Time: at least 48 hours (high quality) / 68 hours (normal quality) • Recording Sources: Built-in microphone, telephone recording • Battery: at least 220mAh built-in lithium battery • Compatibility: Supports Windows 2000, XP, 7, Vista • Package Contents: <ul style="list-style-type: none"> • 1 x Recorder / MP3 Player • 1 x USB Cable • 1 x External Microphone • 1 x RJ45 Cable • 1 x 3.5mm Audio Cable • 1 x Earphone • 1 x Telephone Adapter • 1 x English User Manual • Warranty: at least 1-year 	4	1,000.00	4,000.00
6.) GROUP VIDEO CONFERENCE BUNDLED WITH MICROPHONE AND SPEAKER	7	60,000.00	420,000.00

PARTICULAR	QTY	UNIT COST (Php)	TOTAL AMOUNT (Php)
<ul style="list-style-type: none"> High Definition 1080 Pixel at 30 FPS at least 1/2.8 inch high quality, 2.38MP (16:9) aspect ratio CMOS sensor Resolution: at least 20 megapixel Pan: 340° Tilt: 160° 25x Optical zoom USB HDMI SDI RJ45 Video Output Plug & Play USB Connectivity Crystal clear HD1080P and 1080i image quality 69.5° Wide field of view with no video distortion With Mounting : Yes 2D and 3D NR for best video quality in different lighting conditions User's Manual At least 1-year warranty 			
7.) DIGITAL AUDIO RECORDER <ul style="list-style-type: none"> Audio Recording Format: must have MP3LPCM for high-quality audio capture Microphone: with High Sensitivity S-Microphone for clear voice pickup Internal Storage: at least 4GB of built-in memory Expandable Storage: must be compatible with MicroSD (SDHC/SDXC) cards Noise Reduction: with Auto Voice Recording to background noise Connectivity: should be direct USB built-in for PC connection Battery: must have rechargeable lithium battery with quick charge (3 minutes for 1-hour recording) Playback Features: must have user-friendly playback interface for easy navigation Recording Capacity: with over 159 hours of storage for extended use Warranty: at least 1-year 	10	9,000.00	90,000.00
LOT NO. 5			
1.) ALL-IN-ONE PRINTER (with 3 sets of ink) Functions: Print, Scan, Copy, and Fax	6	70,000.00	420,000.00

PARTICULAR	QTY	UNIT COST (Php)	TOTAL AMOUNT (Php)
<p>Print Speed: At Least 20 images per minute (Black & White)</p> <p>Paper Sizes: A3, Super B (13 x 19"), Legal, Letter, A4, A5, A6, B4, B5, 4 x 6", 5 x 7", 8 x 10", 10 x 15cm, Envelopes: #10, DL, C6</p> <p>Automatic duplex printing: Yes</p> <p>Resolution: At least 4800 x 2400 dpi</p> <p>LCD Touchscreen: At least 10.8cm 4.3" color touchscreen</p> <p>Flexible Connectivity: Hi-Speed USB 2.0, Ethernet, Wi-Fi (IEEE 802.11b/g/n), Wi-Fi Direct</p> <p>Mobile device printing: Yes</p> <p>Inclusions</p> <ul style="list-style-type: none"> • Three (3) sets of original inks • Quick Setup Guide and Basic User's Guide • AC Power Cord • Driver and Utilities (CD-ROM) • At least 1-year warranty <p>Miscellaneous</p> <ul style="list-style-type: none"> • At least 500 sheets of paper capacity • Compatible with Windows and Mac • With at least two (2) standby maintenance boxes • Wireless printing capable • With at least 2m USB 2.0 interface cable • Compatible with 220-240 V and 60 Hz AC power input • With user manual 			
<p>2.) COMPUTER MONITOR</p> <ul style="list-style-type: none"> • At Least 23" IPS Full HD Display • OnScreen Control • Aspect Ratio at least 16:9 • AC Input: 100 ~ 240 Vac 50/60 Hz • Compatible with VGA and HDMI • Refresh Rate at least 70 Hz • Resolution: At least: 1920 x 1080 • Warranty: at least 1-year warranty 	15	10,000.00	150,000.00
<p>3.) EXTERNAL HARD DRIVE</p> <ul style="list-style-type: none"> • Capacity: At Least 2TB of actual space • Interface: At Least USB 3.2 Gen 2 • Transfer speed: At Least 1,000 MB/s • Read/ Write speed: At Least 1,000 MB/s • Warranty: at least 1-year warranty • Type: must be Solid State Drive 	46	9,000.00	414,000.00

PARTICULAR	QTY	UNIT COST (Php)	TOTAL AMOUNT (Php)
4.) POWER STATION FOR DEVICES <ul style="list-style-type: none"> Battery: at least 80,000 mAh Power Requirement: compatible with 220 Volts, 300 watts Waveform: Pure Sine Wave Output: At least 1 PC AC(universal), 3 pcs DC 12Volts, 2pcs USB Output 5volts Display: LCD with LED Light Charging: Solar Charging and AC Charging Features: Overload Protection, Independent switching function for AC/DC output At least can support 12V input port and with inclusion: solar panel 50 watts for solar panel charging 	4	10,000.00	40,000.00
5.) QR PRINTER WITH STICKER <ul style="list-style-type: none"> PRINT TECHNOLOGY <ul style="list-style-type: none"> Printer Type: Direct thermal; optional thermal transfer Print Length Range: at least 9.5 mm (0.375 in) to 2514 mm (99 in) Resolution: at least 203/300 dpi Max. Print Speed: at least 101 mm/s (4 ips) Max. Media Width: at least 4.4" Max. Print Width: at least 4.2" BARCODES <ul style="list-style-type: none"> Code 3 of 9, UPC-A, UPC-E, Interleaved 2 of 5 (I 2 of 5), Code 128, EAN-13, EAN-8, HBIC, Codabar, Interleaved 2 of 5 with a module 10 checksum, Plessey, Interleaved 2 of 5 with a module 10 checksum & shipping bearer bars, 2-digit UPC addendum, 5-digit UPC addendum, Code 93, Postnet, UCC/EAN Code 128, Telepen; 2D Symbologies: UPS MaxiCode, FIM, PDF-417, DataMatrix, QR Code, Aztec, Code 128 with auto Subset Switching, GS1 Databar (replaced RSS), TCIF Linked Barcode 3 of 9 (TLC39), MicroPDF 417 COMMUNICATION 	2	30,000.00	60,000.00



PARTICULAR	QTY	UNIT COST (Php)	TOTAL AMOUNT (Php)
<ul style="list-style-type: none"> Serial; USB At least 1-year warranty			
6.) 3-IN-1 DOCUMENT PRINTER (CONTINUOUS) Printing Technology: <ul style="list-style-type: none"> Print Method: PrecisionCore Print Head Maximum Print Resolution: at least 4,800 x 1,200 dpi Minimum Ink Droplet Volume: at least 2.8pl Print Speed: <ul style="list-style-type: none"> Draft, A4 (Black / Colour): Up to 32 ppm / 20 ppm ISO 24734, A4 Simplex (Black / Colour): Up to 18 ipm / 10 ipm ISO 24734, A4 Duplex (Black / Colour): Up to 8.7 ipm / 6.0 ipm ISO 24734.2, A3 Simplex (Black / Colour): Up to 10 ipm / 6.0 ipm ISO 24734.2, A3 Duplex (Black / Colour): Up to 6.0 ipm / 3.7 ipm Photo Default: at least 42 sec per photo (with Border) Copy Function: <ul style="list-style-type: none"> Copy Resolution: at least 600 x 600 dpi Max Copies: at least 999 copies Reduction / Enlargement: at least 25 - 400%, Auto Fit Function <ul style="list-style-type: none"> Maximum Copy Size: at least A3 Warranty: at least 1-year 	16	45,000.00	720,000.00
7.) PORTABLE POWER SUPPLY (POWER BANK) <ul style="list-style-type: none"> Battery Type: Lithium-ion Battery (must have high-quality Li-ion cells) Cell Capacity: At least 10,000mAh Rated Capacity: At least 6,000mAh (Typical at 5V 3A) Rated Energy: At least 36Wh (7.2V 5000mAh) Battery Charging Limited Voltage: 4.2V Warranty: at least 1-year 	20	2,000.00	40,000.00
GRAND TOTAL			10,756,000.00



III. INSPECTION AND TESTS PROCEDURE

- Inspector and/or Supply Officer can reject any unit or part thereof that fails to pass any test and/or inspection or does not conform to specifications.
- Inspector and/or Supply Officer will issue an Inspection and Acceptance Report (IAR) upon determining that the delivered Various ICT Equipment are usable and in good working condition.

IV. AFTER-SALES SERVICE

A. ORIENTATION/TRAINING REQUIREMENTS

The Winning Bidder shall provide at least **one (1) day** of in-person training/technical updates on all various ICT requirements. This shall include orientation on the operation, repair, maintenance, and basic troubleshooting of devices in the BAFE conference room.

B. TECHNICAL SUPPORT

The technical support is available via telephone and email for 8 hours a day (8:00 am - 5:00 pm) 5 days a week (Monday - Friday) for problem resolution. The support response time will be by the next business day.

V. PAYMENT TERMS AND CONDITIONS

One-time payment shall be made upon completion and acceptance for the supply, delivery, installation, and/or configuration of Various ICT Equipment subject to submission of the following documents:

- a. Certificate of Warranty for all equipment;
- b. Certificate of Replacement for defective items/parts; and
- c. Sales Invoice/Delivery Receipt.

VI. MODE OF PROCUREMENT / AWARDING

The supply, delivery, installation and/or configuration of various ICT equipment will be procured through **Competitive Bidding**. The awarding of this project shall be done by **LOT**.

VII. ADDITIONAL TECHNICAL DOCUMENTS

Bidders are required to submit a minimum of two (2) satisfactory performance certificates to demonstrate the quality and reliability of their offered ICT equipment. These certificates must be verifiable and may be sourced from either:

- The Bureau of Agricultural and Fisheries Engineering (BAFE), or
- Previous clients for completed ICT equipment contracts.

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Republic of the Philippines
BUREAU OF AGRICULTURAL AND FISHERIES ENGINEERING
SRA Compound, Annex II Building Ext,
North Avenue, Diliman, Quezon City
(02) 8351-8120, (02) 8294-9741

- The Bureau of Agricultural and Fisheries Engineering (BAFE), or
- Previous clients for completed ICT equipment contracts.

Prepared by:


MR. JUNDY MER DIMASU-AY
Alternate Procurement Coordinator, PKMDD

Noted by


ENGR. ARNEL L. TENORIO
Interim Chief, PKMDD

