



Republic of the Philippines
 Department of Agriculture
BUREAU OF AGRICULTURAL AND FISHERIES ENGINEERING (BAFE)
 Diliman, Quezon City
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TECHNICAL SPECIFICATIONS ICT Equipment

Lot No.	Lot Title	Description	Quantity	Unit Cost	Total	End User	Specifications
1	COMPUTER, LAPTOPS AND CHARGER	Desktop Computers	10	87,500.00	875,000.00	SRED PPMD	<p>Processor At least Intel Core i7, comparable or better processor</p> <p>Motherboard Compatible to at least 10th Generation processor, comparable, or better processor</p> <p>Operating System Latest compatible Operating System</p> <p>Memory At least 16 GB RAM or better memory</p> <p>Graphics Processing Unit At least 4GB GTX 1050 GDDR5, comparable, or better graphics card</p> <p>Power Supply Compatible</p> <p>Storage (HDD) At least 1 TB</p> <p>Storage (SSD)</p>

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							<p>At least 256 GB</p> <p>Display At least 23 inches full HD</p> <p>Accessories and Peripherals -AC Adapter and power cord -UPS (at least 650 VA) -Mouse -Keyboard -With installed Wi-Fi Adapter (at least 1300 Mbps Wi-Fi Speed) to PCI-E slot -With installed office productivity tools (perpetual license) -With Web Camera (at least 720p video capture resolution) -With user manual</p> <p>Warranty At least one (1) year from the final date of acceptance for parts and services</p>
1	COMPUTER, LAPTOPS AND CHARGER	Laptop (High-End)	5	85,000.00	425,000.00	SRED	<p>Processor At least Intel Core i7, comparable, or better processor</p> <p>Motherboard Compatible to at least 10th Generation processor, comparable, or better processor</p> <p>Operating System Latest compatible Operating System</p>

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							<p>Memory At least 8 GB RAM or better memory</p> <p>Graphics Processing Unit At least 4GB, comparable, or better graphics card</p> <p>Storage (HDD) At least 1 TB</p> <p>Storage (SSD) At least 256 GB</p> <p>Display At least 14 inches full HD</p> <p>Accessories and Peripherals -AC adapter and power cord -With the latest compatible and available connectivity protocol (Wi-Fi, Bluetooth, etc.) -With installed office productivity tools (perpetual license) -With web camera (at least 720p video capture resolution) -With at least one (1) of each of the following: USB 3.1 port, USB Type-C port, HDMI port, Ethernet port, 3.5 mm audio combo jack port -With carrying bag -With wireless mouse -With user manual</p>
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							<p>Warranty At least one (1) year from the final date of acceptance for parts and services</p>
1	COMPUTER, LAPTOPS AND CHARGER	Laptop	7	50,000.00	350,000.00	SRED	<p>Processor At least Intel Core i5, comparable, or better processor</p> <p>Motherboard Compatible to at least 9th Generation processor, comparable, or better processor</p> <p>Operating System Latest compatible Operating System</p> <p>Memory At least 8 GB RAM or better memory</p> <p>Graphics Processing Unit At least 2 GB, comparable, or better graphics card</p> <p>Storage (SSD) At least 500 GB</p> <p>Display At least 14 inches full HD</p> <p>Accessories and Peripherals -AC adapter and power cord</p>

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							<ul style="list-style-type: none"> -With the latest compatible and available connectivity protocol (Wi-Fi, Bluetooth, etc.) -With installed office productivity tools (perpetual license) -With web camera (at least 720p video capture resolution) -With at least one (1) of each of the following: USB 3.1 port, USB Type-C port, HDMI port, Ethernet port, 3.5 mm audio combo jack port -With carrying bag -With wireless mouse -With user manual <p>Warranty At least one (1) year from the final date of acceptance for parts and services</p>
1	COMPUTER, LAPTOPS AND CHARGER	Monitor	2	14,800.00	29,600.00	PPMD	<p>Screen Size At least 27-inch</p> <p>Screen Resolution At least Full HD or better resolution</p> <p>Refresh Rate: At least 144 Hz</p> <p>Accessories and Peripherals -With the latest compatible and available connectivity protocol (Wi-Fi, Bluetooth, etc.)</p>

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							<ul style="list-style-type: none"> -With at least one (1) of each of the following: USB port, HDMI port, and LAN -With user manual -With steel mounting frame and mounting provision -PS Quality and/or safety mark <p>Warranty At least one (1) year from the final date of acceptance for parts and services</p>
1	COMPUTER, LAPTOPS AND CHARGER	Laptop Charger for Apple MF839ZP/ A Macbook Pro	4	5,000.00	20,000.00	FMRDP	<ul style="list-style-type: none"> Power: At least 60 watts -With magnetic connector and LED indicator -With at least 1 meter AC adapter cord -Compatible to Apple Macbook pro with 13-inch Retina Display
SUBTOTAL					1,699,600.00		
2	DOCUMENTATION / GEOTAGGING DEVICES	Documentation Device	10	20,000.00	200,000.00	SRED	<p>Processor At least Octa-core, comparable, or better processor</p> <p>Processor Clock Speed At least 2.0 Hz, or better</p> <p>Operating System At least Android 10, comparable, or better system</p> <p>RAM At least 3 GB or better internal memory</p> <p>Display At least 10-inch or better display</p>

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							<p>Touchscreen At least capacity type or better touchscreen type</p> <p>Screen Resolution At least 2000 x 1200 or better pixel size</p> <p>Storage (Internal) At least 64 GB or better storage</p> <p>Storage (Expandable) Capable of at least 512 GB of external MicroSD or better</p> <p>Rear Camera Capability At least 8 MP or better rear camera</p> <p>Front Camera Capability At least 5 MP or better front camera</p> <p>Body Protection At least IP 53 or better protection</p> <p>Battery At least 7000mAh battery capacity</p> <p>GPS With A-GPS, GLONASS, BDS, Galileo</p> <p>Sensor With accelerometer, gyro, compass, proximity</p>
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							<p>Accessories and peripherals</p> <ul style="list-style-type: none"> -AC adapter and power cord -With sim card slot -With the latest compatible and available connectivity protocol (Wi-Fi, Wi-Fi Direct, Bluetooth, etc.) -With at least one (1) of each of the following: power and data transfer port and 3.5 mm audio combo jack port -With user manual <p>Warranty</p> <p>At least one (1) year from the final date of acceptance for parts and services</p>
2	DOCUMENTATION / GEOTAGGING DEVICES	Geotagging Devices	30	14,450.00	433,500.00	FMRDP	<p>Processor: At least Octa-core, comparable, or better processor</p> <p>Chipset At least Qualcomm Snapdragon 732G, comparable, or better chipset processor</p> <p>RAM: at least 6 GB or better internal memory Storage (Internal): at least 64 GB or better storage</p> <p>Storage (Expandable): capable of at least 512 GB of external MicroSD or better</p> <p>Rear Camera Capability: at least 64 MP or better rear camera</p>

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							<p>Video Camera Capability: at least 1080p @30/60 fps or better video quality</p> <p>Body Protection: at least IP 53 or better protection</p> <p>Battery: at least 4500mAh battery capacity</p> <p>GPS: with A-GPS, GLONASS, BDS, Galileo</p> <p>Sensor: with accelerometer, gyro, compass, proximity, AR-enabled</p> <p>With accessories and peripherals such as:</p> <ol style="list-style-type: none"> 1. AC adapter and power cord 2. With sim card slot 3. With the latest compatible and available connectivity protocol (Wi-Fi, Wi-Fi Direct, Bluetooth, etc.) 4. With at least one (1) of each of the following: power and data transfer port and 3.5 mm audio combo jack port 5. With user manual <p>Warranty: at least one (1) year from the final date of acceptance for parts and services</p>
SUBTOTAL					633,500.00		
3	TELEVISIONS	Smart TV	1	65,000.00	65,000.00	SRED	Screen Size At least 50-inch

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							<p>Screen Resolution At least 4k Ultra High Definition or better resolution</p> <p>Speaker Full Range or better speaker configuration</p> <p>Accessories and Peripherals -With the latest compatible and available connectivity protocol (Wi-Fi, Bluetooth, etc.) -With at least one (1) of each of the following: USB 3.0 port, HDMI port, and 3.5 mm audio combo jack -With remote control and batteries -With user manual -With steel mounting frame and mounting provision -PS Quality and/or safety mark</p> <p>Warranty At least one (1) year from the final date of acceptance for parts and services</p>
3	TELEVISIONS	Smart Interactive TV	2	410,000.00	820,000.00	SRED PPMD	<p><i>INTERACTIVE FLAT PANEL (Indoor) DISPLAY</i></p> <p>Panel At least 86-inch Ultra HD 4K resolution At least 10 bit (1.07B colors) Brightness: At least 300 nits At least 1200:1 contrast ratio</p> <p>Built in Processor At least Quad-Core At least 2 GB RAM</p>

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						<p>At least 16 GB ROM With wireless module provides a dual band 2.4GHz/5GHz; Wifi network, as well as Bluetooth support</p> <p>PC Module included Intel® Core™ i5 vPro™ processor, 8GB DDR4 memory (up to 16GB), and a 128GB M.2 SSD storage (up to 256GB), Windows 10 Operating system to provide additional computing power and touch functionality OPS</p> <p>Touch Type/technology: Infrared recognition or comparable At least 20 points touch Response time: 15ms or faster</p> <p>Input: HDMI; RGB/VGA; Display port; Audio; and PC Slot</p> <p>Output: HDMI: At least 1 Audio (Earphone out): At least 1 LAN RJ45: At least 1</p> <p>Accessories Remote control Compatible rack stand</p>
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							<p>With Web Camera with microphone (at least 1080p video capture resolution)</p> <p>Miscellaneous: Inclusive of installation With PS or ICC mark</p> <p>Warranty: At least one (1) year from the final date of acceptance for parts and services</p>
SUBTOTAL					885,000.00		
4	PRINTERS AND PROJECTOR	Wireless All In One Printer	2	25,000.00	50,000.00	SRED	<p>Printing</p> <ul style="list-style-type: none"> • At least 6.5 ipm print speed for monochrome printing • At least 4.5 ipm print speed for colored printing • Can handle at least 8.5 inches printable width <p>Scan</p> <ul style="list-style-type: none"> • Flatbed scanner type or better type • At least 600 x 1200 dpi optical resolution • At least letter (8.5" x 11") and A4 (8.3" x 11.7") document size <p>Copy</p> <ul style="list-style-type: none"> • Can handle at least letter (8.5" x 11") and A4 (8.3" x 11.7") document size • At least 5.5 ipm colored copy speed <p>Fax</p>

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							<ul style="list-style-type: none"> • At least 25 kbps fax speed or better • Can handle at least letter (8.5" x 11") and A4 (8.3" x 11.7") document size <p>Miscellaneous</p> <ul style="list-style-type: none"> • At least 250 sheets paper capacity • At least compatible with Windows and Mac • With two (2) standby maintenance box • Wireless printing capable or better feature • With at least 2 m USB 2.0 interface cable • At least compatible with 220-240 V and 60 Hz AC power input • With user manual • At least 1-year warranty
4	PRINTERS AND PROJECTOR	A3 All In One Printer	1	30,000.00	30,000.00	SRED	<p>Printing</p> <ul style="list-style-type: none"> • At least 22 ipm print speed for monochrome printing • At least 20 ipm print speed for colored printing • Can handle at least A3 document size <p>Scan</p> <ul style="list-style-type: none"> • Flatbed scanner type or better type • At least 600x600 dpi optical resolution • Can handle at least A3 document size <p>Copy</p> <ul style="list-style-type: none"> • Can handle at least A3 document size • At least 9 ipm colored copy speed

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							<p>Fax</p> <ul style="list-style-type: none"> • Can handle at least A3 document size • At least 30 kbps data transfer rate or better <p>Miscellaneous</p> <ul style="list-style-type: none"> • At least compatible with Windows and Mac • Wireless printing capable or better feature • With at least 2 m USB 2.0 interface cable • At least compatible with 220-240 V and 60 Hz AC power input • At least 1-year warranty
4	PRINTERS AND PROJECTOR	Polyester Sticker Printer	7	14,000.00	98,000.00	SRED	<p>Type 203dpi, Thermal Transfer/Direct Thermal</p> <p>Printing</p> <ul style="list-style-type: none"> • 4-5 Inch/s printing speed • 104mm (4.09) Maximum printing width • 2286mm (90) Maximum printing length • 300M Ribbon length <p>Media Paper Type:</p> <ul style="list-style-type: none"> • Continuous, gap, fan hold, black mark <p>Media width</p> <ul style="list-style-type: none"> • Maximum 120mm (4.72") • Minimum 20mm (0.78") <p>Media gap</p> <ul style="list-style-type: none"> • Minimum 2mm

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							<p>Media Thickness</p> <ul style="list-style-type: none"> • 0.058mm-0.305mm <p>Drive Windows 2000、XP、 Vista、 Win7、 Win8、 Windows Server 2003&2008</p> <p>Power supply Input: AC 110V/240V, Output: DC24V/2.5A,60W</p> <p>Miscellaneous USB interface</p>
4	PRINTERS AND PROJECTOR	All In One Printer	2	14,600.00	29,200.00	FMRDP	<p>Printing</p> <ul style="list-style-type: none"> • At least 20 ipm print speed for monochrome printing • At least 10 ipm print speed for colored printing • Can handle at least 8.5 inches printable width <p>Scan</p> <ul style="list-style-type: none"> • Flatbed scanner type or better type • At least 600 x 1200 dpi optical resolution • At least A4 document size <p>Copy</p> <ul style="list-style-type: none"> • At least A4 document size • At least 20 seconds colored copy speed <p>Fax</p>

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							<ul style="list-style-type: none"> At least 3 secs transmission speed for monochrome printing <p>Miscellaneous</p> <ul style="list-style-type: none"> At least compatible with Windows and Mac Wireless printing capable or better feature With Integrated Ink Tank At least compatible with 220-240 V and 60 Hz AC power input At least 1-year warranty
4	PRINTERS AND PROJECTOR	Multimedia Projector	1	25,000.00	25,000.00	SRED	<p>Brightness At least 3000 lumens or better</p> <p>Resolution At least 800 x 600 or better</p> <p>Contrast Ratio At least 15,000:1 or better ratio</p> <p>Lamp Life At least 5000 hours or better at normal working conditions</p> <p>Accessories and peripherals: -With the latest compatible and available connectivity protocol (Wi-Fi, Bluetooth, etc.) -With at least one (1) of each of the following: HDMI cable, Audio and Video Input cable, Composite (RCA)</p>

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						Video Input, RS-232 (DE-9/DB-9) Control and USB 2.0 (USB Type-A) Data Input -With Built-in speaker -With Lens cap -With Remote Control and Batteries -With User Manual Warranty At least one (1) year from the final date of acceptance for parts and services
SUBTOTAL				232,200.00		
GRAND TOTAL				3,450,300.00		

Prepared by:

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 Procurement Coordinator, SRED

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 Procurement Coordinator, PPM

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