

**BIDS AND AWARDS COMMITTEE**

**SUPPLEMENTAL/BID BULLETIN**

**ADDENDUM NO. 3**

**SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF VARIOUS X-RAY MACHINES**

This Addendum No. 3 dated 24 July 2018 is issued to clarify, modify or amend items in the Bid Documents. This shall form an integral part of the Bid Documents.

ISSUES	CLARIFICATION/AMENDMENTS
Section III. Bid Data Sheet	Section III. Bid Data Sheet
<p><b>ITB Clause 29.2</b></p> <p>Within a non-extendible period of five (5) calendar days from receipt by the bidder of the notice from the BOC-BAC that it submitted the Lowest Calculated Bid, the bidder shall submit the following documentary requirements to the BOC-BAC Secretariat:</p> <p>6. Certificate of Distributorship from the manufacturer;</p> <p>9. Certificate of training from the manufacturer of at least five (5) service engineers/technicians and at least two (2) licensed safety radiation officers that could perform the preventive and corrective maintenance for x-ray machines on-site;</p> <p><i>The minimum work experience requirements for the service engineers/technicians and safety radiation officers are at least two (2) years and three (3) years, respectively. (Résumés, certificate of trainings and license, if applicable, of the service engineers/technicians and safety</i></p>	<p><b>ITB Clause 29.2</b></p> <p>Within a non-extendible period of five (5) calendar days from receipt by the bidder of the notice from the BOC-BAC that it submitted the Lowest Calculated Bid, the bidder shall submit the following documentary requirements to the BOC-BAC Secretariat:</p> <p>6. Certificate of Distributorship from the manufacturer <b>for at least one (1) year</b>;</p> <p>9. Certificate of training from the manufacturer of at least five (5) service engineers/technicians and at least two (2) licensed safety radiation officers that could perform the preventive and corrective maintenance for x-ray machines on-site;</p> <p><i>The minimum work experience requirements for the service engineers/technicians and safety radiation officers is <b>at least two (2) years for both.</b> (Résumés, certificate of trainings and license, if applicable, of the service engineers/technicians and safety radiation <b>officers</b> shall also be</i></p>



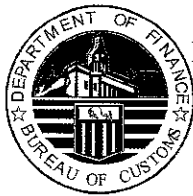
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 DEPARTMENT OF FINANCE  
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<i>radiation officer shall also be submitted during the post-qualification as part of post-qualification documents)</i>	<i>submitted during the post-qualification as part of post-qualification documents).</i>
<b>Section V. Special Conditions of Contract</b>	<b>Section V. Special Conditions of Contract</b>
<b>GCC Clause 17.3</b>  No further instructions.	<b>GCC Clause 17.3</b>  The obligation for the warranty shall be covered by, at the Supplier's option, either retention money in an amount equivalent to one percent (1%) of every progress payment, or a special bank guarantee equivalent to ten percent (10%) of the total Contract Price or other such amount.
<b>Section VI. Schedule of Requirements</b>	<b>Section VI. Schedule of Requirements</b>
<b>Lot No. 3</b>  <b>Supply, Delivery, Installation and Commissioning of Mobile Baggage X-ray Machines</b>  Delivery Term: 90 cd	<b>Lot No. 3</b>  <b>Supply, Delivery, Installation and Commissioning of Mobile Baggage X-ray Machines</b>  <b>Delivery Term: 120 cd</b>
<b>Section VII. Technical Specifications</b>	<b>Section VII. Technical Specifications</b>
<b>Lot No. 1</b>  <b>Supply, Delivery, Installation and Commissioning of Fixed Baggage X-Ray Machine with Enclosures</b>  <b>Generator</b>  The X-ray machine shall be designed to be powered by two (2) x-ray source generators.  <ul style="list-style-type: none"> <li>• Voltage: Operating at 140kV</li> <li>• Tube current: 0.7mA</li> <li>• Cooling: Sealed oil bath with forced air</li> </ul>	<b>Lot No. 1</b>  <b>Supply, Delivery, Installation and Commissioning of Fixed Baggage X-Ray Machine with Enclosures</b>  <b>Generator</b>  The X-ray machine shall be designed to be powered by two (2) x-ray source generators.  <ul style="list-style-type: none"> <li>• Voltage: <b>Manufacturer's Standard</b></li> <li>• Tube current: <b>Manufacturer's Standard</b></li> <li>• Cooling: <b>Manufacturer's Standard</b></li> </ul>



REPUBLIC OF THE PHILIPPINES  
 DEPARTMENT OF FINANCE  
**BUREAU OF CUSTOMS**  
 Manila 1099

<ul style="list-style-type: none"> <li>• Duty Cycle: 100% duty cycle operation, No Warm-up Procedure Required</li> </ul>	<ul style="list-style-type: none"> <li>• Duty Cycle: 100% duty cycle operation, No Warm-up Procedure Required</li> </ul>
<p><b>Computer</b></p> <ul style="list-style-type: none"> <li>• Base Clock Speed: at least 3.6 GHz</li> <li>• Max Turbo Core Speed: 4.2 GHz, 8MB SmartCache, Quad-core</li> <li>• Lithography: 14 nm</li> <li>• Memory: At least 4 GB RAM</li> <li>• Storage: 256 GB SSD for OS plus 1 TB Internal HDD (back-up)</li> <li>• Video Card: At least 1 GB with Dual Digital Display</li> <li>• With internal Graphics Interface</li> <li>• Operating System: Compatible to the latest OS</li> <li>• Expansion Ports: 3.0 USB Ports (2 at the front; 4 at the back) and DVD Drive</li> <li>• Anti-Virus: Manufacturer's Standard</li> </ul>	<p><b>Computer</b></p> <ul style="list-style-type: none"> <li>• Base Clock Speed: at least 3.6 GHz</li> <li>• Max Turbo Core Speed: 4.2 GHz, 8MB SmartCache, <b>6-core</b></li> <li>• <del>Lithography: 14 nm</del></li> <li>• <b>Memory: 8 GB RAM</b></li> <li>• <b>Storage: At least 500 GB internal data drive for the OS and 1 TB Internal HDD for archiving</b></li> <li>• Video Card: At least 1 GB with Dual Digital Display</li> <li>• Operating System: <b>Compatible to the existing OS of the end-user</b></li> <li>• Expansion Ports: 3.0 USB Ports (2 at the front; 4 at the back) and DVD Drive</li> <li>• Anti-Virus: Manufacturer's Standard</li> </ul>
<p><b>Monitor</b></p> <ul style="list-style-type: none"> <li>• Display Type: 2 x 24" units LCD Color Monitors</li> <li>• Display Resolution: 1600 x 1200; 24 bit/pixel Color</li> <li>• Dual Monitor for Image Display: for vertical and horizontal display</li> </ul>	<p><b>Monitor</b></p> <ul style="list-style-type: none"> <li>• Display Type: 2 x 24" units <b>LED</b> Color Monitors</li> <li>• Display Resolution: 1600 x 1200; 24 bit/pixel Color</li> <li>• Dual Monitor for Image Display: for vertical and horizontal display</li> </ul>
<p><b>Printer</b></p> <ul style="list-style-type: none"> <li>• heavy duty 3 in 1 colored laser printer</li> </ul>	<p><b>Printer</b></p> <ul style="list-style-type: none"> <li>• Heavy duty 3 in 1 colored laser printer</li> <li>• <b>Printing Speed: At least 21 pages per minute in A4 size in black/white and color</b></li> </ul>
<p><b>Electrical</b></p> <ul style="list-style-type: none"> <li>• Power requirements: Manufacturer's Standard</li> <li>• The x-ray machine and PC shall be provided with corresponding Uninterruptible Power Supply (UPS). The operation of the machine shall not be affected in case of power interruption.</li> </ul>	<p><b>Electrical</b></p> <ul style="list-style-type: none"> <li>• Power requirements: Manufacturer's Standard</li> <li>• The <del>x-ray machine and PC</del> computer shall be provided with an Uninterruptible Power Supply (UPS). The operation of the machine shall not be affected in case of power interruption.</li> </ul>



REPUBLIC OF THE PHILIPPINES  
DEPARTMENT OF FINANCE  
**BUREAU OF CUSTOMS**  
Manila 1099

<p>The equipment must be equipped with on-line Uninterruptible Power Supply (UPS) running the system for ten (10) minutes minimum. The load capacity should be capable of running the whole system (i.e., X-ray machine and other accessories) for ten minutes.</p> <p>Voltage: AC 230V Input Voltage Range: AC 160-286V Power Output Connectors: 6 x power IEC 60320 C13 Power Capacity: 500 watt / 750 VA Surge Suppression: Yes Surge Energy Rating: 340 Joules Frequency Required: 50/60 Hz Form Factor: External UPS Technology: Line Interactive Voltage Provided: AC 220/230/240V Voltage Provided Margin: <math>\pm 5\%</math> UPS Output Waveform: sinewave</p> <ul style="list-style-type: none"> <li>• Fitted with Main Power Switchboard securely installed inside workstation</li> <li>• Fitted with standard radiation alarm system such as limited to blinker and public address.</li> </ul>	<p><b>• Manufacturer's Standard for UPS.</b></p> <p><del>The equipment must be equipped with on-line Uninterruptible Power Supply (UPS) running the system for ten (10) minutes minimum. The load capacity should be capable of running the whole system (i.e., X-ray machine and other accessories) for ten minutes.</del></p> <p><del>Voltage: AC 230V Input Voltage Range: AC 160-286V Power Output Connectors: 6 x power IEC 60320 C13 Power Capacity: 500 watt / 750 VA Surge Suppression: Yes Surge Energy Rating: 340 Joules Frequency Required: 50/60 Hz Form Factor: External UPS Technology: Line Interactive Voltage Provided: AC 220/230/240V Voltage Provided Margin: <math>\pm 5\%</math> UPS Output Waveform: sinewave</del></p> <ul style="list-style-type: none"> <li><del>• Fitted with Main Power Switchboard securely installed inside workstation</del></li> <li><del>• Fitted with standard radiation alarm system such as limited to blinker and public address.</del></li> </ul>
<p><b>Integrated Logistics Support</b></p> <p>The supplier shall provide with but not limited to the following items:</p> <ul style="list-style-type: none"> <li>• Climate Operating Kit</li> <li>• Custom Paint</li> <li>• Entry / Exit Roller Tables (50 cm Increments)</li> <li>• 3.5m x 3.5m Rubberized Floor mat for Operator (interlock)</li> <li>• Heavy Duty Rubber Casters</li> <li>• Radiation Dosimeter (for the machine)</li> <li>• Capable of remote Real-time viewing</li> <li>• Test Case</li> <li>• Personal Dosimeter (User)</li> </ul>	<p><b>Integrated Logistics Support</b></p> <p>The supplier shall provide with but not limited to the following items:</p> <ul style="list-style-type: none"> <li>• Climate Operating Kit</li> <li>• Custom Paint</li> <li>• <b>2m Entry Roller / 2m Exit Roller Tables</b></li> <li><del>• 3.5m x 3.5m Rubberized Floor mat for Operator (interlock)</del></li> <li>• Heavy Duty Rubber Casters</li> <li>• <b>1 pc.</b> Radiation Dosimeter (for the machine)</li> <li>• Capable of remote Real-time viewing</li> <li>• Test Case</li> <li>• <b>3 pcs.</b> Personal Dosimeter (User)</li> </ul>



REPUBLIC OF THE PHILIPPINES  
 DEPARTMENT OF FINANCE  
**BUREAU OF CUSTOMS**  
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<ul style="list-style-type: none"> <li>• Three (3) external 1TB HDD (for volume image storage)</li> <li>• Flat in/out rollers and exit rollers</li> <li>• Anti-radiation vest</li> </ul>	<ul style="list-style-type: none"> <li>• Three (3) external 1TB HDD (for volume image storage)</li> <li>• <del>Flat in/out rollers and exit rollers</del></li> <li>• <b>2 pcs.</b> Anti-radiation vest</li> </ul>
<p><b>24/7 System-Based After Sales Service Support System</b></p> <ul style="list-style-type: none"> <li>• Web-based – Accessible from anywhere with a browser, works on smartphones and tablets.</li> <li>• Assign default technical support agent for each service related request from the client.</li> <li>• Ensure that parts are available for immediate deployment to reduce downtime.</li> <li>• Tracks the downtime of each service call when created and closed.</li> <li>• Service calls statistics can be transferred to and from the system for data updating and analysis.</li> <li>• Quickly find service calls by keywords and filtering via date, user or company.</li> <li>• Monitors preventive maintenance scheduled routine checks.</li> <li>• Keep records and activities performed on each and every machine/equipment deployed.</li> </ul>	<p><b>24/7 System-Based After Sales Service Support System</b></p> <ul style="list-style-type: none"> <li>• Web-based – Accessible from anywhere with a browser, works on smartphones and tablets.  <i>(Web-based application as defined by any program that is accessed over a network connection using HTTP, rather than existing within a device's memory. Web based applications often run inside a web browser.)</i></li> <li>• Assign default technical support agent for each service related request from the client.</li> <li>• Ensure that parts are available for immediate deployment to reduce downtime.</li> <li>• Tracks the downtime of each service call when created and closed.</li> <li>• Service calls statistics can be transferred to and from the system for data updating and analysis.</li> <li>• Quickly find service calls by keywords and filtering via date, user or company.</li> <li>• Monitors preventive maintenance scheduled routine checks.</li> <li>• Keep records and activities performed on each and every machine/equipment deployed.</li> </ul>
<p><b>Other Requirements</b></p> <ul style="list-style-type: none"> <li>• A comprehensive training package (at least three (3) sessions on operation and maintenance) for customs personnel shall be provided to include operating and maintenance manuals. <u>Five (5) participants per sessions.</u></li> </ul>	<p><b>Other Requirements</b></p> <ul style="list-style-type: none"> <li>• A comprehensive training package (at least three (3) sessions on operation and maintenance) for customs personnel shall be provided to include operating and maintenance manuals. <u>Five (5) participants per session.</u></li> </ul>



REPUBLIC OF THE PHILIPPINES  
DEPARTMENT OF FINANCE  
**BUREAU OF CUSTOMS**  
Manila 1099

<p>The objective of the said training is to increase the operator's awareness, keenness and capability to achieve optimal material identification/detection for potential security threats with increased accuracy and speed.</p>	<p>The objective of the said training is to increase the operator's awareness, keenness and capability to achieve optimal material identification/detection for potential security threats with increased accuracy and speed.</p>
<p><b>Lot No. 2</b></p> <p><b>Supply, Delivery, Installation and Commissioning of Hand-Carried Baggage X-ray Machines</b></p> <p><b>Conveyor System</b></p> <p>Capacity: Maximum of 165 kg (evenly distributed)</p>	<p><b>Lot No. 2</b></p> <p><b>Supply, Delivery, Installation and Commissioning of Hand-Carried Baggage X-ray Machines</b></p> <p><b>Conveyor System</b></p> <p>Capacity: <b>Minimum of 160 kg</b> (evenly distributed)</p>
<p><b>Generator</b></p> <p>The X-ray machine shall be designed to be powered by two (2) x-ray source generators.</p> <ul style="list-style-type: none"> <li>• Voltage: Operating at 160kV</li> <li>• Tube current: maximum of 1.0mA</li> <li>• Cooling: Sealed oil bath with forced air</li> <li>• Duty Cycle: 100% duty cycle operation, No Warm-up Procedure Required</li> </ul>	<p><b>Generator</b></p> <p>The X-ray machine shall be designed to be powered by two (2) x-ray source generators.</p> <ul style="list-style-type: none"> <li>• Voltage: <b>Manufacturer's Standard</b></li> <li>• Tube current: <b>Manufacturer's Standard</b></li> <li>• Cooling: <b>Manufacturer's Standard</b></li> <li>• Duty Cycle: 100% duty cycle operation, No Warm-up Procedure Required</li> </ul>
<p><b>Computer</b></p> <ul style="list-style-type: none"> <li>• Base Clock Speed: at least 3.6 GHz</li> <li>• Max Turbo Core Speed: 4.2 GHz, 8MB SmartCache, Quad-core</li> <li>• Lithography: 14 nm</li> <li>• Memory: At least 4 GB RAM</li> <li>• Storage: 256 GB SSD for OS plus 1 TB Internal HDD (back-up)</li> <li>• Video Card: At least 1 GB with Dual Digital Display</li> <li>• With internal Graphics Interface</li> <li>• Operating System: Compatible to the latest OS</li> </ul>	<p><b>Computer</b></p> <ul style="list-style-type: none"> <li>• Base Clock Speed: at least 3.6 GHz</li> <li>• Max Turbo Core Speed: 4.2 GHz, 8MB SmartCache, <b>6-core</b></li> <li>• <del>Lithography: 14 nm</del></li> <li>• <b>Memory: 8 GB RAM</b></li> <li>• <b>Storage: At least 500 GB internal data drive for the OS and 1 TB Internal HDD for archiving</b></li> <li>• Video Card: At least 1 GB with Dual Digital Display</li> <li>• Operating System: <b>Compatible to the existing OS of the end-user</b></li> </ul>



REPUBLIC OF THE PHILIPPINES  
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<ul style="list-style-type: none"> <li>• Expansion Ports: 3.0 USB Ports (2 at the front; 4 at the back) and DVD Drive</li> <li>• Anti-Virus: Manufacturer's Standard</li> </ul>	<ul style="list-style-type: none"> <li>• Expansion Ports: 3.0 USB Ports (2 at the front; 4 at the back) and DVD Drive</li> <li>• Anti-Virus: Manufacturer's Standard</li> </ul>
<p><b>Monitor</b></p> <ul style="list-style-type: none"> <li>• Display Type: 2 x 24" units LCD Color Monitors</li> <li>• Display Resolution: 1600 x 1200; 24 bit/pixel Color</li> <li>• Dual Monitor for Image Display: for vertical and horizontal display</li> </ul>	<p><b>Monitor</b></p> <ul style="list-style-type: none"> <li>• Display Type: 2 x 24" units <b>LED</b> Color Monitors</li> <li>• Display Resolution: 1600 x 1200; 24 bit/pixel Color</li> <li>• Dual Monitor for Image Display: for vertical and horizontal display</li> </ul>
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<p><b>Electrical</b></p> <ul style="list-style-type: none"> <li>• Power requirements: Manufacturer's Standard</li> <li>• The x-ray machine and PC shall be provided with corresponding Uninterruptible Power Supply (UPS). The operation of the machine shall not be affected in case of power interruption.</li> </ul> <p>The equipment must be equipped with on-line Uninterruptible Power Supply (UPS) running the system for ten (10) minutes minimum. The load capacity should be capable of running the whole system (i.e., X-ray machine and other accessories) for ten minutes.</p> <p>Voltage: AC 230V        Input Voltage Range: AC 160-286V        Power Output Connectors: 6 x power IEC 60320 C13        Power Capacity: 500 watt / 750 VA        Surge Suppression: Yes        Surge Energy Rating: 340 Joules        Frequency Required: 50/60 Hz</p>	<p><b>Electrical</b></p> <ul style="list-style-type: none"> <li>• Power requirements: Manufacturer's Standard</li> <li>• <del>The x-ray machine and PC</del> computer shall be provided with an Uninterruptible Power Supply (UPS). The operation of the machine shall not be affected in case of power interruption.</li> <li>• <b>Manufacturer's Standard for UPS.</b></li> </ul> <p><del>The equipment must be equipped with on-line Uninterruptible Power Supply (UPS) running the system for ten (10) minutes minimum. The load capacity should be capable of running the whole system (i.e., X ray machine and other accessories) for ten minutes.</del></p> <p>Voltage: AC 230V        Input Voltage Range: AC 160-286V        Power Output Connectors: 6 x power IEC 60320 C13        Power Capacity: 500 watt / 750 VA        Surge Suppression: Yes        Surge Energy Rating: 340 Joules        Frequency Required: 50/60 Hz</p>



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DEPARTMENT OF FINANCE  
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<p>Form Factor: External UPS Technology: Line Interactive Voltage Provided: AC 220/230/240V Voltage Provided Margin: <math>\pm 5\%</math> UPS Output Waveform: sinewave</p> <ul style="list-style-type: none"> <li>• Fitted with Main Power Switchboard securely installed inside workstation</li> <li>• Fitted with standard radiation alarm system such as limited to blinker and public address.</li> </ul>	<p><del>Form Factor: External UPS Technology: Line Interactive Voltage Provided: AC 220/230/240V Voltage Provided Margin: <math>\pm 5\%</math> UPS Output Waveform: sinewave</del></p> <ul style="list-style-type: none"> <li><del>• Fitted with Main Power Switchboard securely installed inside workstation</del></li> <li><del>• Fitted with standard radiation alarm system such as limited to blinker and public address.</del></li> </ul>
<p><b>Integrated Logistics Support</b></p> <p>The supplier shall provide with but not limited to the following items:</p> <ul style="list-style-type: none"> <li>• Climate Operating Kit</li> <li>• Custom Paint</li> <li>• Entry / Exit Roller Tables (50 cm Increments)</li> <li>• 3.5m x 3.5m Rubberized Floor mat for Operator (interlock)</li> <li>• Heavy Duty Rubber Casters</li> <li>• Radiation Dosimeter (for the machine)</li> <li>• Capable of remote Real-time viewing</li> <li>• Test Case</li> <li>• Personal Dosimeter (User)</li> <li>• Three (3) external 1TB HDD (for volume image storage)</li> <li>• Flat in/out rollers and exit rollers</li> <li>• Anti-radiation vest</li> </ul>	<p><b>Integrated Logistics Support</b></p> <p>The supplier shall provide with but not limited to the following items:</p> <ul style="list-style-type: none"> <li>• Climate Operating Kit</li> <li>• Custom Paint</li> <li>• <b>2m Entry Roller / 2m Exit Roller Tables</b></li> <li>• <del>3.5m x 3.5m</del> Rubberized Floor mat for Operator (interlock)</li> <li>• Heavy Duty Rubber Casters</li> <li>• <b>1 pc.</b> Radiation Dosimeter (for the machine)</li> <li>• Capable of remote Real-time viewing</li> <li>• Test Case</li> <li>• <b>3 pcs.</b> Personal Dosimeter (User)</li> <li>• Three (3) external 1TB HDD (for volume image storage)</li> <li>• <del>Flat in/out rollers and exit rollers</del></li> <li>• <b>2 pcs.</b> Anti-radiation vest</li> </ul>
<p><b>24/7 System-Based After Sales Service Support System</b></p> <ul style="list-style-type: none"> <li>• Web-based – Accessible from anywhere with a browser, works on smartphones and tablets.</li> <li>• Assign default technical support agent for each service related request from the client.</li> <li>• Ensure that parts are available for immediate deployment to reduce downtime.</li> </ul>	<p><b>24/7 System-Based After Sales Service Support System</b></p> <ul style="list-style-type: none"> <li>• Web-based – Accessible from anywhere with a browser, works on smartphones and tablets.</li> </ul> <p><i>(Web-based application as defined by any program that is accessed over a network connection using HTTP, rather than existing within a device's memory. Web based applications often run inside a web browser.)</i></p>





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<ul style="list-style-type: none"> <li>• Tracks the downtime of each service call when created and closed.</li> <li>• Service calls statistics can be transferred to and from the system for data updating and analysis.</li> <li>• Quickly find service calls by keywords and filtering via date, user or company.</li> <li>• Monitors preventive maintenance scheduled routine checks.</li> <li>• Keep records and activities performed on each and every machine/equipment deployed.</li> </ul>	<ul style="list-style-type: none"> <li>• Assign default technical support agent for each service related request from the client.</li> <li>• Ensure that parts are available for immediate deployment to reduce downtime.</li> <li>• Tracks the downtime of each service call when created and closed.</li> <li>• Service calls statistics can be transferred to and from the system for data updating and analysis.</li> <li>• Quickly find service calls by keywords and filtering via date, user or company.</li> <li>• Monitors preventive maintenance scheduled routine checks.</li> <li>• Keep records and activities performed on each and every machine/equipment deployed.</li> </ul>
<p><b>Other Requirements</b></p> <ul style="list-style-type: none"> <li>• A comprehensive training package (at least three (3) sessions on operation and maintenance) for customs personnel shall be provided to include operating and maintenance manuals. <u>Five (5) participants per sessions.</u></li> </ul> <p>The objective of the said training is to increase the operator's awareness, keenness and capability to achieve optimal material identification/detection for potential security threats with increased accuracy and speed.</p>	<p><b>Other Requirements</b></p> <ul style="list-style-type: none"> <li>• A comprehensive training package (at least three (3) sessions on operation and maintenance) for customs personnel shall be provided to include operating and maintenance manuals. <u><b>Five (5) participants per session.</b></u></li> </ul> <p>The objective of the said training is to increase the operator's awareness, keenness and capability to achieve optimal material identification/detection for potential security threats with increased accuracy and speed.</p>
<p><b>Lot No. 3</b></p> <p><b>Supply, Delivery, Installation and Commissioning of Mobile Baggage X-ray Machines</b></p> <p><b>Conveyor System</b></p> <p>Capacity: Maximum of 165 kg (evenly distributed)</p>	<p><b>Lot No. 3</b></p> <p><b>Supply, Delivery, Installation and Commissioning of Mobile Baggage X-ray Machines</b></p> <p><b>Conveyor System</b></p> <p>Capacity: <b>Minimum of 160 kg</b> (evenly distributed)</p>



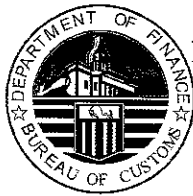
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Manila 1099

<p><b>Generator</b></p> <p>The X-ray machine shall be designed to be powered by two (2) x-ray source generators.</p> <ul style="list-style-type: none"> <li>• Voltage: Operating at 150kV</li> <li>• Tube current: 1.8mA</li> <li>• Cooling: Sealed oil bath with forced air</li> <li>• Duty Cycle: 100% duty cycle operation, No Warm-up Procedure Required</li> </ul>	<p><b>Generator</b></p> <p>The X-ray machine shall be designed to be powered by two (2) x-ray source generators.</p> <ul style="list-style-type: none"> <li>• Voltage: <b>Manufacturer's Standard</b></li> <li>• Tube current: <b>Manufacturer's Standard</b></li> <li>• Cooling: <b>Manufacturer's Standard</b></li> <li>• Duty Cycle: 100% duty cycle operation, No Warm-up Procedure Required</li> </ul>
<p><b>Computer</b></p> <ul style="list-style-type: none"> <li>• Base Clock Speed: at least 3.6 GHz</li> <li>• Max Turbo Core Speed: 4.2 GHz, 8MB SmartCache, Quad-core</li> <li>• Lithography: 14 nm</li> <li>• Memory: At least 4 GB RAM</li> <li>• Storage: 256 GB SSD for OS plus 1 TB Internal HDD (back-up)</li> <li>• Video Card: At least 1 GB with Dual Digital Display</li> <li>• With internal Graphics Interface</li> <li>• Operating System: Compatible to the latest OS</li> <li>• Expansion Ports: 3.0 USB Ports (2 at the front; 4 at the back) and DVD Drive</li> <li>• Anti-Virus: Manufacturer's Standard</li> </ul>	<p><b>Computer</b></p> <ul style="list-style-type: none"> <li>• Base Clock Speed: at least 3.6 GHz</li> <li>• Max Turbo Core Speed: 4.2 GHz, 8MB SmartCache, <b>6-core</b></li> <li>• Lithography: 14 nm</li> <li>• <b>Memory: 8 GB RAM</b></li> <li>• <b>Storage: At least 500 GB internal data drive for the OS and 1 TB Internal HDD for archiving</b></li> <li>• Video Card: At least 1 GB with Dual Digital Display</li> <li>• Operating System: <b>Compatible to the existing OS of the end-user</b></li> <li>• Expansion Ports: 3.0 USB Ports (2 at the front; 4 at the back) and DVD Drive</li> <li>• Anti-Virus: Manufacturer's Standard</li> </ul>
<p><b>Monitor</b></p> <ul style="list-style-type: none"> <li>• Display Type: 2 x 24" units LCD Color Monitors</li> <li>• Display Resolution: 1600 x 1200; 24 bit/pixel Color</li> <li>• Dual Monitor for Image Display: for vertical and horizontal display</li> </ul> <p><b>Display Features</b></p> <ul style="list-style-type: none"> <li>• One (1) display color imaging</li> <li>• Enhanced organic material separation imaging</li> <li>• Enhanced inorganic material separation imaging</li> </ul>	<p><b>Monitor</b></p> <ul style="list-style-type: none"> <li>• Display Type: 2 x 24" units <b>LED</b> Color Monitors</li> <li>• Display Resolution: 1600 x 1200; 24 bit/pixel Color</li> <li>• Dual Monitor for Image Display: for vertical and horizontal display</li> </ul> <p><b>Display Features</b></p> <ul style="list-style-type: none"> <li>• One (1) display color imaging</li> <li>• Enhanced organic material separation imaging</li> <li>• Enhanced inorganic material separation imaging</li> </ul>



REPUBLIC OF THE PHILIPPINES  
 DEPARTMENT OF FINANCE  
**BUREAU OF CUSTOMS**  
 Manila 1099

<ul style="list-style-type: none"> <li>• Black and white imaging</li> <li>• Reverse black and white imaging</li> <li>• Pseudo color imaging</li> <li>• Dual view x-ray machine with dual-energy functions for materials discrimination. It should be designed to effectively eliminate the uncertainty in the identification of objects.</li> </ul>	<ul style="list-style-type: none"> <li>• Black and white imaging</li> <li>• Reverse black and white imaging</li> <li>• Pseudo color imaging</li> <li>• Dual view x-ray machine with dual-energy functions for materials discrimination. It should be designed to effectively eliminate the uncertainty in the identification of objects.</li> </ul>
<p><b>Printer</b></p> <ul style="list-style-type: none"> <li>• heavy duty 3 in 1 colored laser printer</li> </ul>	<p><b>Printer</b></p> <ul style="list-style-type: none"> <li>• Heavy duty 3 in 1 colored laser printer</li> <li>• <b>Printing Speed: At least 21 pages per minute in A4 size in black/white and color</b></li> </ul>
<p><b>Electrical</b></p> <ul style="list-style-type: none"> <li>• Power requirements: Manufacturer's Standard</li> <li>• The x-ray machine and PC shall be provided with corresponding Uninterruptible Power Supply (UPS). The operation of the machine shall not be affected in case of power interruption.</li> </ul> <p>The equipment must be equipped with on-line Uninterruptible Power Supply (UPS) running the system for ten (10) minutes minimum. The load capacity should be capable of running the whole system (i.e., X-ray machine and other accessories) for ten minutes.</p> <p>Voltage: AC 230V        Input Voltage Range: AC 160-286V        Power Output Connectors: 6 x power IEC 60320 C13        Power Capacity: 500 watt / 750 VA        Surge Suppression: Yes        Surge Energy Rating: 340 Joules        Frequency Required: 50/60 Hz        Form Factor: External        UPS Technology: Line Interactive        Voltage Provided: AC 220/230/240V        Voltage Provided Margin: ± 5%</p>	<p><b>Electrical</b></p> <ul style="list-style-type: none"> <li>• Power requirements: Manufacturer's Standard</li> <li>• <del>The x-ray machine and PC</del> computer shall be provided with an Uninterruptible Power Supply (UPS). The operation of the machine shall not be affected in case of power interruption.</li> <li>• <b>Manufacturer's Standard for UPS.</b></li> </ul> <p><del>The equipment must be equipped with on-line Uninterruptible Power Supply (UPS) running the system for ten (10) minutes minimum. The load capacity should be capable of running the whole system (i.e., X-ray machine and other accessories) for ten minutes.</del></p> <p>Voltage: AC 230V        Input Voltage Range: AC 160-286V        Power Output Connectors: 6 x power IEC 60320 C13        Power Capacity: 500 watt / 750 VA        Surge Suppression: Yes        Surge Energy Rating: 340 Joules        Frequency Required: 50/60 Hz        Form Factor: External        UPS Technology: Line Interactive        Voltage Provided: AC 220/230/240V        Voltage Provided Margin: ± 5%</p>



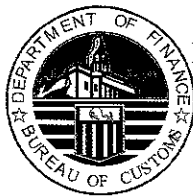
REPUBLIC OF THE PHILIPPINES  
DEPARTMENT OF FINANCE  
**BUREAU OF CUSTOMS**  
Manila 1099

<p>UPS Output Waveform: sinewave</p> <ul style="list-style-type: none"> <li>• Fitted with Main Power Switchboard securely installed inside workstation</li> <li>• Fitted with standard radiation alarm system such as limited to blinker and public address.</li> </ul>	<p>UPS-Output Waveform: sinewave</p> <ul style="list-style-type: none"> <li>• <del>Fitted with Main Power Switchboard securely installed inside workstation</del></li> <li>• <del>Fitted with standard radiation alarm system such as limited to blinker and public address.</del></li> </ul>
<p><b>Prime Mover</b></p> <ul style="list-style-type: none"> <li>• Transmission: Automatic</li> </ul>	<p><b>Prime Mover</b></p> <ul style="list-style-type: none"> <li>• <b>Transmission: Manufacturer's Standard</b></li> </ul>
<p><b>Integrated Logistics Support</b></p> <p>The supplier shall provide with but not limited to the following items:</p> <ul style="list-style-type: none"> <li>• Climate Operating Kit</li> <li>• Custom Paint</li> <li>• Entry / Exit Roller Tables (50 cm Increments)</li> <li>• 3.5m x 3.5m Rubberized Floor mat for Operator (interlock)</li> <li>• Heavy Duty Rubber Casters</li> <li>• Radiation Dosimeter (for the machine)</li> <li>• Capable of remote Real-time viewing</li> <li>• Test Case</li> <li>• Personal Dosimeter (User)</li> <li>• Three (3) external 1TB HDD (for volume image storage)</li> <li>• Flat in/out rollers and exit rollers</li> <li>• Anti-radiation vest</li> </ul>	<p><b>Integrated Logistics Support</b></p> <p>The supplier shall provide with but not limited to the following items:</p> <ul style="list-style-type: none"> <li>• Climate Operating Kit</li> <li>• Custom Paint</li> <li>• <b>2m Entry Roller / 2m Exit Roller Tables</b></li> <li>• <del>3.5m x 3.5m</del> Rubberized Floor mat for Operator (interlock)</li> <li>• Heavy Duty Rubber Casters</li> <li>• <b>1 pc.</b> Radiation Dosimeter (for the machine)</li> <li>• Capable of remote Real-time viewing</li> <li>• Test Case</li> <li>• <b>3 pcs.</b> Personal Dosimeter (User)</li> <li>• Three (3) external 1TB HDD (for volume image storage)</li> <li>• <del>Flat in/out rollers and exit rollers</del></li> <li>• <b>2 pcs.</b> Anti-radiation vest</li> </ul>
<p><b>24/7 System-Based After Sales Service Support System</b></p> <ul style="list-style-type: none"> <li>• Web-based – Accessible from anywhere with a browser, works on smartphones and tablets.</li> <li>• Assign default technical support agent for each service related request from the client.</li> <li>• Ensure that parts are available for immediate deployment to reduce downtime.</li> </ul>	<p><b>24/7 System-Based After Sales Service Support System</b></p> <ul style="list-style-type: none"> <li>• Web-based – Accessible from anywhere with a browser, works on smartphones and tablets.</li> </ul> <p><i>(Web-based application as defined by any program that is accessed over a network connection using HTTP, rather than existing within a device's memory. Web based applications often run inside a web browser.)</i></p>



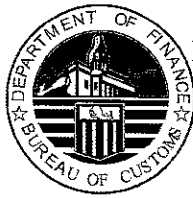
REPUBLIC OF THE PHILIPPINES  
 DEPARTMENT OF FINANCE  
**BUREAU OF CUSTOMS**  
 Manila 1099

<ul style="list-style-type: none"> <li>• Tracks the downtime of each service call when created and closed.</li> <li>• Service calls statistics can be transferred to and from the system for data updating and analysis.</li> <li>• Quickly find service calls by keywords and filtering via date, user or company.</li> <li>• Monitors preventive maintenance scheduled routine checks.</li> <li>• Keep records and activities performed on each and every machine/equipment deployed.</li> </ul>	<ul style="list-style-type: none"> <li>• Assign default technical support agent for each service related request from the client.</li> <li>• Ensure that parts are available for immediate deployment to reduce downtime.</li> <li>• Tracks the downtime of each service call when created and closed.</li> <li>• Service calls statistics can be transferred to and from the system for data updating and analysis.</li> <li>• Quickly find service calls by keywords and filtering via date, user or company.</li> <li>• Monitors preventive maintenance scheduled routine checks.</li> <li>• Keep records and activities performed on each and every machine/equipment deployed.</li> </ul>
<p><b>Other Requirements</b></p> <ul style="list-style-type: none"> <li>• A comprehensive training package (at least three (3) sessions on operation and maintenance) for customs personnel shall be provided to include operating and maintenance manuals. <u>Five (5) participants per sessions.</u></li> </ul> <p>The objective of the said training is to increase the operator's awareness, keenness and capability to achieve optimal material identification/detection for potential security threats with increased accuracy and speed.</p>	<p><b>Other Requirements</b></p> <ul style="list-style-type: none"> <li>• A comprehensive training package (at least three (3) sessions on operation and maintenance) for customs personnel shall be provided to include operating and maintenance manuals. <b><u>Five (5) participants per session.</u></b></li> </ul> <p>The objective of the said training is to increase the operator's awareness, keenness and capability to achieve optimal material identification/detection for potential security threats with increased accuracy and speed.</p>
<p><b>Lot No. 4</b></p> <p><b>Supply, Delivery, Installation and Commissioning of Portal Type X-ray Machines</b></p>	<p><b>Lot No. 4</b></p> <p><b>Supply, Delivery, Installation and Commissioning of Portal Type X-ray Machines</b></p>
<p><b>Computer</b></p> <ul style="list-style-type: none"> <li>• Base Clock Speed: at least 3.6 GHz</li> </ul>	<p><b>Computer</b></p> <ul style="list-style-type: none"> <li>• Base Clock Speed: at least 3.6 GHz</li> </ul>



REPUBLIC OF THE PHILIPPINES  
DEPARTMENT OF FINANCE  
**BUREAU OF CUSTOMS**  
Manila 1099

<ul style="list-style-type: none"> <li>• Max Turbo Core Speed: 4.2 GHz, 8MB SmartCache, Quad-core</li> <li>• Lithography: 14 nm</li> <li>• Memory: At least 4 GB RAM</li> <li>• Storage: 256 GB SSD for OS plus 1 TB Internal HDD (back-up)</li> <li>• Video Card: At least 1 GB with Dual Digital Display</li> <li>• With internal Graphics Interface</li> <li>• Operating System: Compatible to the latest OS</li> <li>• Expansion Ports: 3.0 USB Ports (2 at the front; 4 at the back) and DVD Drive</li> <li>• Anti-Virus: Manufacturer's Standard</li> </ul>	<ul style="list-style-type: none"> <li>• Max Turbo Core Speed: 4.2 GHz, 8MB SmartCache, <b>6-core</b></li> <li>• <del>Lithography: 14 nm</del></li> <li>• <b>Memory: 8 GB RAM</b></li> <li>• <b>Storage: At least 500 GB internal data drive for the OS and 1 TB Internal HDD for archiving</b></li> <li>• Video Card: At least 1 GB with Dual Digital Display</li> <li>• Operating System: <b>Compatible to the existing OS of the end-user</b></li> <li>• Expansion Ports: 3.0 USB Ports (2 at the front; 4 at the back) and DVD Drive</li> <li>• Anti-Virus: Manufacturer's Standard</li> </ul>
<p><b>Monitor</b></p> <ul style="list-style-type: none"> <li>• Display Type: 2 x 24" units LCD Color Monitors</li> <li>• Display Resolution: 1600 x 1200; 24 bit/pixel Color</li> <li>• Dual Monitor for Image Display: for vertical and horizontal display</li> </ul> <p><b>Display Features</b></p> <ul style="list-style-type: none"> <li>• One (1) display color imaging</li> <li>• Enhanced organic material separation imaging</li> <li>• Enhanced inorganic material separation imaging</li> <li>• Black and white imaging</li> <li>• Reverse black and white imaging</li> <li>• Pseudo color imaging</li> <li>• Dual view x-ray machine with dual-energy functions for materials discrimination. It should be designed to effectively eliminate the uncertainty in the identification of objects.</li> </ul>	<p><b>Monitor</b></p> <ul style="list-style-type: none"> <li>• Display Type: 2 x 24" units <b>LED</b> Color Monitors</li> <li>• Display Resolution: 1600 x 1200; 24 bit/pixel Color</li> <li>• Dual Monitor for Image Display: <del>for vertical and horizontal display</del></li> </ul> <p><b>Display Features</b></p> <ul style="list-style-type: none"> <li>• One (1) display color imaging</li> <li>• Enhanced organic material separation imaging</li> <li>• Enhanced inorganic material separation imaging</li> <li>• Black and white imaging</li> <li>• Reverse black and white imaging</li> <li>• Pseudo color imaging</li> <li>• <del>Dual view x-ray machine with dual-energy functions for materials discrimination. It should be designed to effectively eliminate the uncertainty in the identification of objects.</del></li> </ul>
<p><b>Printer</b></p> <ul style="list-style-type: none"> <li>• heavy duty 3 in 1 colored laser printer</li> </ul>	<p><b>Printer</b></p> <ul style="list-style-type: none"> <li>• Heavy duty 3 in 1 colored laser printer</li> <li>• <b>Printing Speed: At least 21 pages per minute in A4 size in black/white and color</b></li> </ul>



<p><b>Integrated Logistics Support</b></p> <p>The supplier shall provide with but not limited to the following items:</p> <ul style="list-style-type: none"> <li>• Climate Operating Kit</li> <li>• Custom Paint</li> <li>• Radiation Dosimeter (for the machine)</li> <li>• Capable of remote Real-time viewing</li> <li>• Test Case</li> <li>• Personal Dosimeter (User)</li> <li>• Three (3) external 1TB HDD (for volume image storage)</li> <li>• Anti-radiation vest</li> </ul>	<p><b>Integrated Logistics Support</b></p> <p>The supplier shall provide with but not limited to the following items:</p> <ul style="list-style-type: none"> <li>• Climate Operating Kit</li> <li>• Custom Paint</li> <li>• <b>1 pc.</b> Radiation Dosimeter (for the machine)</li> <li>• Capable of remote Real-time viewing</li> <li>• Test Case</li> <li>• <b>3 pcs.</b> Personal Dosimeter (User)</li> <li>• Three (3) external 1TB HDD (for volume image storage)</li> <li>• <b>2 pcs.</b> Anti-radiation vest</li> </ul>
<p><b>Capabilities And Performance Requirements</b></p> <p>The X-ray equipment must be included in the Transportation Security Administration (TSA) Qualified List and has undergone a formal TSA sponsored test process and is deemed qualified for screening operations and/or its European Equivalent Standard.</p>	<p><b>Capabilities and Performance Requirements</b></p> <p><b>The manufacturer must have at least one (1) x-ray screening product included in the Transportation Security Administration (TSA) Qualified List and/or its European Equivalent Standard.</b></p>
<p><b>24/7 System-Based After Sales Service Support System</b></p> <ul style="list-style-type: none"> <li>• Web-based – Accessible from anywhere with a browser, works on smartphones and tablets.</li> <li>• Assign default technical support agent for each service related request from the client.</li> <li>• Ensure that parts are available for immediate deployment to reduce downtime.</li> <li>• Tracks the downtime of each service call when created and closed.</li> <li>• Service calls statistics can be transferred to and from the system for data updating and analysis.</li> <li>• Quickly find service calls by keywords and filtering via date, user or company.</li> </ul>	<p><b>24/7 System-Based After Sales Service Support System</b></p> <ul style="list-style-type: none"> <li>• Web-based – Accessible from anywhere with a browser, works on smartphones and tablets. <i>(Web-based application as defined by any program that is accessed over a network connection using HTTP, rather than existing within a device's memory. Web based applications often run inside a web browser.)</i></li> <li>• Assign default technical support agent for each service related request from the client.</li> <li>• Ensure that parts are available for immediate deployment to reduce downtime.</li> </ul>



REPUBLIC OF THE PHILIPPINES  
 DEPARTMENT OF FINANCE  
**BUREAU OF CUSTOMS**  
 Manila 1099

<ul style="list-style-type: none"> <li>• Monitors preventive maintenance scheduled routine checks.</li> <li>• Keep records and activities performed on each and every machine/equipment deployed.</li> </ul>	<ul style="list-style-type: none"> <li>• Tracks the downtime of each service call when created and closed.</li> <li>• Service calls statistics can be transferred to and from the system for data updating and analysis.</li> <li>• Quickly find service calls by keywords and filtering via date, user or company.</li> <li>• Monitors preventive maintenance scheduled routine checks.</li> <li>• Keep records and activities performed on each and every machine/equipment deployed.</li> </ul>
<p><b>Other Requirements</b></p> <ul style="list-style-type: none"> <li>• A comprehensive training package (at least three (3) sessions on operation and maintenance) for customs personnel shall be provided to include operating and maintenance manuals. <u>Five (5) participants per sessions.</u></li> </ul> <p>The objective of the said training is to increase the operator's awareness, keenness and capability to achieve optimal material identification/detection for potential security threats with increased accuracy and speed.</p> <ul style="list-style-type: none"> <li>• The machine to be supplied must be certified as an "Approved Product for Homeland Security" for Vehicle and Cargo Inspection Systems in compliance with US Department of Homeland Security.</li> <li>• The operating footprint and radiation exclusion zone must not exceed 3 m long by 8.5 m wide without the use of shielding walls for maximum dose rate of 20 <math>\mu</math>Sv (2 mrem) in any one hour at 150 scans/hour.</li> </ul>	<p><b>Other Requirements</b></p> <ul style="list-style-type: none"> <li>• A comprehensive training package (at least three (3) sessions on operation and maintenance) for customs personnel shall be provided to include operating and maintenance manuals. <b><u>Five (5) participants per session.</u></b></li> </ul> <p>The objective of the said training is to increase the operator's awareness, keenness and capability to achieve optimal material identification/detection for potential security threats with increased accuracy and speed.</p> <ul style="list-style-type: none"> <li>• <del>The machine to be supplied must be certified as an "Approved Product for Homeland Security" for Vehicle and Cargo Inspection Systems in compliance with US Department of Homeland Security.</del></li> <li>• <b>Operating footprint and radiation exclusion zone: Manufacturer's Standard</b></li> </ul>
<p>Section III. Bid Data Sheet</p> <p>Section VI. Schedule of Requirements</p>	<p>Section III. Bid Data Sheet is revised as attached.</p> <p>Section VI. Schedule of Requirements is revised as attached.</p>





REPUBLIC OF THE PHILIPPINES  
DEPARTMENT OF FINANCE  
**BUREAU OF CUSTOMS**  
Manila 1099

Section VII. Technical Specifications	Section VII. Technical Specifications is revised as attached.
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**Reminders:**

- Submission of bids will be on or before 31 July 2018, 10:00 AM
- Late submission will not be accepted.

**Attachment/s:** As stated

For guidance and information of all concerned.

  
**GLADYS F. ROSALES, MPA, CESE**  
Chairperson, BOC-BAC 