



BIDS AND AWARDS COMMITTEE

SUPPLEMENTAL/BID BULLETIN

ADDENDUM NO. 2

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

This Addendum No. 2 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>ITB Clause 5.4</p> <p>The bidder must have completed, within five (5) years prior to July 31, 2018, a single contract that is similar to the project at hand and whose value must be at least fifty percent (50%) of the ABC to be bid. Such contract must be part of, or included in, the Statement under Item 12.1(a)(ii) hereof.</p> <p>Bidders shall include in their bids a photocopy of the Single Largest Completed Contract or Purchase Order and its corresponding proof of completion such as (i) Certificate of Final Acceptance from the bidder's client; or (ii) Official Receipt/s.</p> <p>Failure to submit a copy of Single Largest Completed Contract with proof of Completion or a failure against the veracity of such shall be a ground for disqualification of the bidder for award and forfeiture of the bid security.</p> <p>For this purpose, similar contract shall refer to Supply, Delivery, Installation and</p>	<p>ITB Clause 5.4</p> <p>The bidder must have completed, within five (5) years prior to July 31, 2018, a single contract that is similar to the project at hand and whose value must be at least fifty percent (50%) of the ABC to be bid.</p> <p>For Lot No. 4, the bidder may submit two (2) or more contracts that are similar to the project, the aggregate amount of which should be equivalent to at least (50%) of the ABC of the lot being bid for this project and one of which is at least twenty five (25%) of the ABC of the lot being bid.</p> <p>Such contract/s must be part of, or included in, the Statement under Item 12.1(a)(ii) hereof.</p> <p>Bidders shall include in their bids a photocopy of the Single Largest Completed Contract or Purchase Order and its corresponding proof of completion such as (i) Certificate of Final Acceptance from the bidder's client; or (ii) Official Receipt/s.</p>



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<p>Commissioning of Baggage/Cargo X-ray Machines.</p>	<p>Failure to submit a copy of Single Largest Completed Contract with proof of Completion or a failure against the veracity of such shall be a ground for disqualification of the bidder for award and forfeiture of the bid security.</p> <p>For this purpose, similar contract shall refer to Supply, Delivery, Installation and Commissioning of Baggage/Cargo X-ray Machines.</p>
<p>ITB Clause 29.2</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 radiation officer shall also be submitted during the post-qualification as part of post-qualification documents)</i></p>	<p>ITB Clause 29.2</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 for at least one (1) year;</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 at least two (2) years for both. (Résumés, certificate of trainings and license, if applicable, of the service engineers/technicians and safety radiation officers shall also be submitted during the post-qualification as part of post-qualification documents).</i></p>



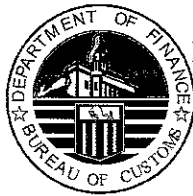
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<p>Section V. Special Conditions of Contract</p>	<p>Section V. Special Conditions of Contract</p>
<p>GCC Clause 17.3</p> <p>No further instructions.</p>	<p>GCC Clause 17.3</p> <p>The obligation for the warranty shall be covered by, at the Supplier's 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.</p>
<p>Section VI. Schedule of Requirements</p>	<p>Section VI. Schedule of Requirements</p>
<p>Lot No. 3</p> <p>Supply, Delivery, Installation and Commissioning of Mobile Baggage X-ray Machines</p> <p>Delivery Term: 90 cd</p>	<p>Lot No. 3</p> <p>Supply, Delivery, Installation and Commissioning of Mobile Baggage X-ray Machines</p> <p>Delivery Term: 120 cd</p>
<p>Section VII. Technical Specifications</p>	<p>Section VII. Technical Specifications</p>
<p>Lot No. 1</p> <p>Supply, Delivery, Installation and Commissioning of Fixed Baggage X-Ray Machine with Enclosures</p> <p>Generator</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"> • Voltage: Operating at 140kV • Tube current: 0.7mA • Cooling: Sealed oil bath with forced air • Duty Cycle: 100% duty cycle operation, No Warm-up Procedure Required 	<p>Lot No. 1</p> <p>Supply, Delivery, Installation and Commissioning of Fixed Baggage X-Ray Machine with Enclosures</p> <p>Generator</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"> • Voltage: Manufacturer's Standard • Tube current: Manufacturer's Standard • Cooling: Manufacturer's Standard • Duty Cycle: 100% duty cycle operation, No Warm-up Procedure Required



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<p>Computer</p> <ul style="list-style-type: none"> • Base Clock Speed: at least 3.6 GHz • Max Turbo Core Speed: 4.2 GHz, 8MB SmartCache, Quad-core • Lithography: 14 nm • Memory: At least 4 GB RAM • Storage: 256 GB SSD for OS plus 1 TB Internal HDD (back-up) • Video Card: At least 1 GB with Dual Digital Display • With internal Graphics Interface • Operating System: Compatible to the latest OS • Expansion Ports: 3.0 USB Ports (2 at the front; 4 at the back) and DVD Drive • Anti-Virus: Manufacturer's Standard 	<p>Computer</p> <ul style="list-style-type: none"> • Base Clock Speed: at least 3.6 GHz • Max Turbo Core Speed: 4.2 GHz, 8MB SmartCache, 6-core • Lithography: 14 nm • Memory: 8 GB RAM • Storage: At least 500 GB internal data drive for the OS and 1 TB Internal HDD for archiving • Video Card: At least 1 GB with Dual Digital Display • Operating System: Compatible to the existing OS of the end-user • Expansion Ports: 3.0 USB Ports (2 at the front; 4 at the back) and DVD Drive • Anti-Virus: Manufacturer's Standard
<p>Monitor</p> <ul style="list-style-type: none"> • Display Type: 2 x 24" units LCD Color Monitors • Display Resolution: 1600 x 1200; 24 bit/pixel Color • Dual Monitor for Image Display: for vertical and horizontal display 	<p>Monitor</p> <ul style="list-style-type: none"> • Display Type: 2 x 24" units LED Color Monitors • Display Resolution: 1600 x 1200; 24 bit/pixel Color • Dual Monitor for Image Display: for vertical and horizontal display
<p>Printer</p> <ul style="list-style-type: none"> • heavy duty 3 in 1 colored laser printer 	<p>Printer</p> <ul style="list-style-type: none"> • Heavy duty 3 in 1 colored laser printer • Printing Speed: At least 21 pages per minute in A4 size in black/white and color
<p>Electrical</p> <ul style="list-style-type: none"> • Power requirements: Manufacturer's Standard • 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. <p>The equipment must be equipped with on-line Uninterruptible Power Supply</p>	<p>Electrical</p> <ul style="list-style-type: none"> • Power requirements: Manufacturer's Standard • The x-ray machine and PC computer shall be provided with an Uninterruptible Power Supply (UPS). The operation of the machine shall not be affected in case of power interruption. • Manufacturer's Standard for UPS. <p>The equipment must be equipped with on-line Uninterruptible Power Supply</p>



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<p>(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: \pm 5% UPS Output Waveform: sinewave</p> <ul style="list-style-type: none"> • Fitted with Main Power Switchboard securely installed inside workstation • Fitted with standard radiation alarm system such as limited to blinker and public address. 	<p>(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: \pm 5% UPS Output Waveform: sinewave</p> <ul style="list-style-type: none"> • Fitted with Main Power Switchboard securely installed inside workstation • Fitted with standard radiation alarm system such as limited to blinker and public address.
<p>Integrated Logistics Support</p> <p>The supplier shall provide with but not limited to the following items:</p> <ul style="list-style-type: none"> • Climate Operating Kit • Custom Paint • Entry / Exit Roller Tables (50 cm Increments) • 3.5m x 3.5m Rubberized Floor mat for Operator (interlock) • Heavy Duty Rubber Casters • Radiation Dosimeter (for the machine) • Capable of remote Real-time viewing • Test Case • Personal Dosimeter (User) • Three (3) external 1TB HDD (for volume image storage) • Flat in/out rollers and exit rollers • Anti-radiation vest 	<p>Integrated Logistics Support</p> <p>The supplier shall provide with but not limited to the following items:</p> <ul style="list-style-type: none"> • Climate Operating Kit • Custom Paint • 2m Entry Roller / 2m Exit Roller Tables • 3.5m x 3.5m Rubberized Floor mat for Operator (interlock) • Heavy Duty Rubber Casters • 1 pc. Radiation Dosimeter (for the machine) • Capable of remote Real-time viewing • Test Case • 3 pcs. Personal Dosimeter (User) • Three (3) external 1TB HDD (for volume image storage) • Flat in/out rollers and exit rollers



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	<ul style="list-style-type: none"> • 2 pcs. Anti-radiation vest
<p>24/7 System-Based After Sales Service Support System</p> <ul style="list-style-type: none"> • Web-based – Accessible from anywhere with a browser, works on smartphones and tablets. • Assign default technical support agent for each service related request from the client. • Ensure that parts are available for immediate deployment to reduce downtime. • Tracks the downtime of each service call when created and closed. • Service calls statistics can be transferred to and from the system for data updating and analysis. • Quickly find service calls by keywords and filtering via date, user or company. • Monitors preventive maintenance scheduled routine checks. • Keep records and activities performed on each and every machine/equipment deployed. 	<p>24/7 System-Based After Sales Service Support System</p> <ul style="list-style-type: none"> • 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> • Assign default technical support agent for each service related request from the client. • Ensure that parts are available for immediate deployment to reduce downtime. • Tracks the downtime of each service call when created and closed. • Service calls statistics can be transferred to and from the system for data updating and analysis. • Quickly find service calls by keywords and filtering via date, user or company. • Monitors preventive maintenance scheduled routine checks. • Keep records and activities performed on each and every machine/equipment deployed.
<p>Other Requirements</p> <ul style="list-style-type: none"> • 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> <p>The objective of the said training is to increase the operator's awareness,</p>	<p>Other Requirements</p> <ul style="list-style-type: none"> • 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> <p>The objective of the said training is to increase the operator's awareness,</p>



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<p>keenness and capability to achieve optimal material identification/detection for potential security threats with increased accuracy and speed.</p>	<p>keenness and capability to achieve optimal material identification/detection for potential security threats with increased accuracy and speed.</p>
<p>Lot No. 2</p> <p>Supply, Delivery, Installation and Commissioning of Hand-Carried Baggage X-ray Machines</p> <p>Conveyor System</p> <p>Capacity: Maximum of 165 kg (evenly distributed)</p>	<p>Lot No. 2</p> <p>Supply, Delivery, Installation and Commissioning of Hand-Carried Baggage X-ray Machines</p> <p>Conveyor System</p> <p>Capacity: Minimum of 160 kg (evenly distributed)</p>
<p>Generator</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"> • Voltage: Operating at 160kV • Tube current: maximum of 1.0mA • Cooling: Sealed oil bath with forced air • Duty Cycle: 100% duty cycle operation, No Warm-up Procedure Required 	<p>Generator</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"> • Voltage: Manufacturer's Standard • Tube current: Manufacturer's Standard • Cooling: Manufacturer's Standard • Duty Cycle: 100% duty cycle operation, No Warm-up Procedure Required
<p>Computer</p> <ul style="list-style-type: none"> • Base Clock Speed: at least 3.6 GHz • Max Turbo Core Speed: 4.2 GHz, 8MB SmartCache, Quad-core • Lithography: 14 nm • Memory: At least 4 GB RAM • Storage: 256 GB SSD for OS plus 1 TB Internal HDD (back-up) • Video Card: At least 1 GB with Dual Digital Display • With internal Graphics Interface • Operating System: Compatible to the latest OS • Expansion Ports: 3.0 USB Ports (2 at the front; 4 at the back) and DVD Drive • Anti-Virus: Manufacturer's Standard 	<p>Computer</p> <ul style="list-style-type: none"> • Base Clock Speed: at least 3.6 GHz • Max Turbo Core Speed: 4.2 GHz, 8MB SmartCache, 6-core • Lithography: 14 nm • Memory: 8 GB RAM • Storage: At least 500 GB internal data drive for the OS and 1 TB Internal HDD for archiving • Video Card: At least 1 GB with Dual Digital Display • Operating System: Compatible to the existing OS of the end-user • Expansion Ports: 3.0 USB Ports (2 at the front; 4 at the back) and DVD Drive • Anti-Virus: Manufacturer's Standard



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<p>Monitor</p> <ul style="list-style-type: none"> • Display Type: 2 x 24" units LCD Color Monitors • Display Resolution: 1600 x 1200; 24 bit/pixel Color • Dual Monitor for Image Display: for vertical and horizontal display 	<p>Monitor</p> <ul style="list-style-type: none"> • Display Type: 2 x 24" units LED Color Monitors • Display Resolution: 1600 x 1200; 24 bit/pixel Color • Dual Monitor for Image Display: for vertical and horizontal display
<p>Printer</p> <ul style="list-style-type: none"> • heavy duty 3 in 1 colored laser printer 	<p>Printer</p> <ul style="list-style-type: none"> • Heavy duty 3 in 1 colored laser printer • Printing Speed: At least 21 pages per minute in A4 size in black/white and color
<p>Electrical</p> <ul style="list-style-type: none"> • Power requirements: Manufacturer's Standard • 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. <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% UPS Output Waveform: sinewave</p>	<p>Electrical</p> <ul style="list-style-type: none"> • Power requirements: Manufacturer's Standard • The x-ray machine and PC computer shall be provided with an Uninterruptible Power Supply (UPS). The operation of the machine shall not be affected in case of power interruption. • Manufacturer's Standard for UPS. <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>



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<ul style="list-style-type: none"> • Fitted with Main Power Switchboard securely installed inside workstation • Fitted with standard radiation alarm system such as limited to blinker and public address. 	<p>UPS Output Waveform: sinewave</p> <ul style="list-style-type: none"> • Fitted with Main Power Switchboard securely installed inside workstation • Fitted with standard radiation alarm system such as limited to blinker and public address.
<p>Integrated Logistics Support</p> <p>The supplier shall provide with but not limited to the following items:</p> <ul style="list-style-type: none"> • Climate Operating Kit • Custom Paint • Entry / Exit Roller Tables (50 cm Increments) • 3.5m x 3.5m Rubberized Floor mat for Operator (interlock) • Heavy Duty Rubber Casters • Radiation Dosimeter (for the machine) • Capable of remote Real-time viewing • Test Case • Personal Dosimeter (User) • Three (3) external 1TB HDD (for volume image storage) • Flat in/out rollers and exit rollers • Anti-radiation vest 	<p>Integrated Logistics Support</p> <p>The supplier shall provide with but not limited to the following items:</p> <ul style="list-style-type: none"> • Climate Operating Kit • Custom Paint • 2m Entry Roller / 2m Exit Roller Tables • 3.5m x 3.5m Rubberized Floor mat for Operator (interlock) • Heavy Duty Rubber Casters • 1 pc. Radiation Dosimeter (for the machine) • Capable of remote Real-time viewing • Test Case • 3 pcs. Personal Dosimeter (User) • Three (3) external 1TB HDD (for volume image storage) • Flat in/out rollers and exit rollers • 2 pcs. Anti-radiation vest
<p>24/7 System-Based After Sales Service Support System</p> <ul style="list-style-type: none"> • Web-based – Accessible from anywhere with a browser, works on smartphones and tablets. • Assign default technical support agent for each service related request from the client. • Ensure that parts are available for immediate deployment to reduce downtime. • Tracks the downtime of each service call when created and closed. 	<p>24/7 System-Based After Sales Service Support System</p> <ul style="list-style-type: none"> • 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> • Assign default technical support agent for each service related request from the client.



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<ul style="list-style-type: none"> • Service calls statistics can be transferred to and from the system for data updating and analysis. • Quickly find service calls by keywords and filtering via date, user or company. • Monitors preventive maintenance scheduled routine checks. • Keep records and activities performed on each and every machine/equipment deployed. 	<ul style="list-style-type: none"> • Ensure that parts are available for immediate deployment to reduce downtime. • Tracks the downtime of each service call when created and closed. • Service calls statistics can be transferred to and from the system for data updating and analysis. • Quickly find service calls by keywords and filtering via date, user or company. • Monitors preventive maintenance scheduled routine checks. • Keep records and activities performed on each and every machine/equipment deployed.
<p>Other Requirements</p> <ul style="list-style-type: none"> • 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> <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>Other Requirements</p> <ul style="list-style-type: none"> • 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> <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>Lot No. 3</p> <p>Supply, Delivery, Installation and Commissioning of Mobile Baggage X-ray Machines</p> <p>Conveyor System</p> <p>Capacity: Maximum of 165 kg (evenly distributed)</p>	<p>Lot No. 3</p> <p>Supply, Delivery, Installation and Commissioning of Mobile Baggage X-ray Machines</p> <p>Conveyor System</p> <p>Capacity: Minimum of 160 kg (evenly distributed)</p>



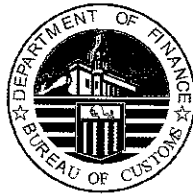
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<p>Generator</p> <p>The X-ray machine shall be designed to be powered by two (2) x-ray source generators.</p> <ul style="list-style-type: none"> • Voltage: Operating at 150kV • Tube current: 1.8mA • Cooling: Sealed oil bath with forced air • Duty Cycle: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



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<ul style="list-style-type: none"> • Black and white imaging • Reverse black and white imaging • Pseudo color imaging • 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. 	<ul style="list-style-type: none"> • Black and white imaging • Reverse black and white imaging • Pseudo color imaging • 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.
<p>Printer</p> <ul style="list-style-type: none"> • heavy duty 3 in 1 colored laser printer 	<p>Printer</p> <ul style="list-style-type: none"> • Heavy duty 3 in 1 colored laser printer • Printing Speed: At least 21 pages per minute in A4 size in black/white and color
<p>Electrical</p> <ul style="list-style-type: none"> • Power requirements: Manufacturer's Standard • 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. <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>Electrical</p> <ul style="list-style-type: none"> • Power requirements: Manufacturer's Standard • The x-ray machine and PC computer shall be provided with an Uninterruptible Power Supply (UPS). The operation of the machine shall not be affected in case of power interruption. • Manufacturer's Standard for UPS. <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>



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



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<ul style="list-style-type: none"> • Tracks the downtime of each service call when created and closed. • Service calls statistics can be transferred to and from the system for data updating and analysis. • Quickly find service calls by keywords and filtering via date, user or company. • Monitors preventive maintenance scheduled routine checks. • Keep records and activities performed on each and every machine/equipment deployed. 	<ul style="list-style-type: none"> • Assign default technical support agent for each service related request from the client. • Ensure that parts are available for immediate deployment to reduce downtime. • Tracks the downtime of each service call when created and closed. • Service calls statistics can be transferred to and from the system for data updating and analysis. • Quickly find service calls by keywords and filtering via date, user or company. • Monitors preventive maintenance scheduled routine checks. • Keep records and activities performed on each and every machine/equipment deployed.
<p>Other Requirements</p> <ul style="list-style-type: none"> • 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> <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>Other Requirements</p> <ul style="list-style-type: none"> • 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> <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>Lot No. 4</p> <p>Supply, Delivery, Installation and Commissioning of Portal Type X-ray Machines</p>	<p>Lot No. 4</p> <p>Supply, Delivery, Installation and Commissioning of Portal Type X-ray Machines</p>
<p>Computer</p> <ul style="list-style-type: none"> • Base Clock Speed: at least 3.6 GHz 	<p>Computer</p> <ul style="list-style-type: none"> • Base Clock Speed: at least 3.6 GHz



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



<p>Integrated Logistics Support</p> <p>The supplier shall provide with but not limited to the following items:</p> <ul style="list-style-type: none"> • Climate Operating Kit • Custom Paint • Radiation Dosimeter (for the machine) • Capable of remote Real-time viewing • Test Case • Personal Dosimeter (User) • Three (3) external 1TB HDD (for volume image storage) • Anti-radiation vest 	<p>Integrated Logistics Support</p> <p>The supplier shall provide with but not limited to the following items:</p> <ul style="list-style-type: none"> • Climate Operating Kit • Custom Paint • 1 pc. Radiation Dosimeter (for the machine) • Capable of remote Real-time viewing • Test Case • 3 pcs. Personal Dosimeter (User) • Three (3) external 1TB HDD (for volume image storage) • 2 pcs. Anti-radiation vest
<p>Capabilities And Performance Requirements</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>Capabilities and Performance Requirements</p> <p>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.</p>
<p>24/7 System-Based After Sales Service Support System</p> <ul style="list-style-type: none"> • Web-based – Accessible from anywhere with a browser, works on smartphones and tablets. • Assign default technical support agent for each service related request from the client. • Ensure that parts are available for immediate deployment to reduce downtime. • Tracks the downtime of each service call when created and closed. • Service calls statistics can be transferred to and from the system for data updating and analysis. • Quickly find service calls by keywords and filtering via date, user or company. 	<p>24/7 System-Based After Sales Service Support System</p> <ul style="list-style-type: none"> • 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> • Assign default technical support agent for each service related request from the client. • Ensure that parts are available for immediate deployment to reduce downtime.



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<ul style="list-style-type: none"> • Monitors preventive maintenance scheduled routine checks. • Keep records and activities performed on each and every machine/equipment deployed. 	<ul style="list-style-type: none"> • Tracks the downtime of each service call when created and closed. • Service calls statistics can be transferred to and from the system for data updating and analysis. • Quickly find service calls by keywords and filtering via date, user or company. • Monitors preventive maintenance scheduled routine checks. • Keep records and activities performed on each and every machine/equipment deployed.
<p>Other Requirements</p> <ul style="list-style-type: none"> • 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> <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"> • 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. • 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 μSv (2 mrem) in any one hour at 150 scans/hour. 	<p>Other Requirements</p> <ul style="list-style-type: none"> • 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> <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"> • 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. • Operating footprint and radiation exclusion zone: Manufacturer's Standard
<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>



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Section VII. Technical Specifications

Section VII. Technical Specifications is revised as attached.

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.

ATTY. YASSER ISMAIL A. ABBAS
Vice-Chairperson, BOC-BAC