

12th July, 2019

To all prospective bidders,

RE: CLARIFICATIONS / ADDENDUM SET "2" - TENDER NO. KRA/HQS/ICB-069/2018-2019 – LEASE OF SCANNERS

Kenya Revenue Authority wishes to inform prospective bidders of the clarifications / addendum highlighted below for the tender for Lease of Scanners

5.6 GENERAL QUALIFICATIONS		KRA's Response (Clarification / Addendum)
The Lessor should meet/submit the following:		
CLARIFICATIONS		
b) Submit evidence of tax registration and valid tax compliance certificate or exemption if applicable	We request this requirement be removed. If an OEM wins the tender they can setup a center or contract with a local company. This requirement unduly restricts competition.	Tender requirement prevails. Bidders are required to Submit evidence of tax registration and valid tax compliance certificate or exemption if applicable in the country where the firm is registered.
c) Submit a Valid Business License copy.	We request this requirement be removed. If an OEM wins the tender they can setup a center or contract with a local company. This requirement unduly restricts competition.	Tender requirement prevails. Bidders are required to Submit evidence of tax registration and valid tax compliance certificate or exemption if applicable in the country where the firm is registered.

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I. MINIMUM TECHNICAL SPECIFICATIONS FOR DRIVE-THROUGH SCANNER

No	Feature	I. MINIMUM TECHNICAL SPECIFICATIONS FOR DRIVE-THROUGH SCANNER	Bidder clarification questions	KRA's Response (Clarification / Addendum)
1	X-ray transmission technology	1) Low energy and high energy x-ray transmission, 3Mev and 6Mev respectively.	The MeV level is not directly proportional to a system's performance and thus we request that the MeV level be removed. (Just as you can get similar performance from a 4 cylinder and 6 cylinder car, you can get the same from different level systems of Mev. Otherwise we ask that the Mev levels be expanded from to also include 6 and 9 MeV.	<p>Tender requirement prevails.</p> <p>The stated energy level is a minimum requirement hence 6MeV and 9 Mev are admissible.</p> <p>Must meet DUAL ENERGY requirement.</p>
3.	Scan object height	4.8 meters at least	We request this requirement be changed to 4.7 meters at least. 4.7 meters is more than sufficient to scan trucks and containers and is used all over the world.	<p>Tender requirement prevails</p> <p>Considering the kind of trucks operating in the local environment, 4.8m clearance will allow for scanning of most cargo including on OPEN-TOP containers.</p> <p>This will ensure the safety of scanning equipment from physical damage</p> <p>Tender requirement prevails.</p> <p>Considering the kind of trucks operating in the local environment, 2.8m width will allow for scanning of most cargo including OUT OF GAUGE cargo, OPEN TOP containers, etc.</p> <p>The KRA ICT security policy is based on the ISO 27001 standard.</p>
4.	Scan object width	2.8m at least	We request this requirement be changed to 2.7 meters at least. 2.7 meters is more than sufficient to scan trucks and containers and is used all over the world.	<p>Tender requirement prevails.</p> <p>Considering the kind of trucks operating in the local environment, 2.8m width will allow for scanning of most cargo including OUT OF GAUGE cargo, OPEN TOP containers, etc.</p> <p>The KRA ICT security policy is based on the ISO 27001 standard.</p>
15	KRA ICT Policy	The scanner system should conform to the KRA ICT Security	Please clarify what this policy is	The KRA ICT security policy is based on the ISO 27001 standard.

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Policy	
ADDENDUM	
6	<p>X-ray source</p> <p>The unit for the generation of the X-rays must produce photons of a suitable energy and intensity, for the complete inspection of containers. The radiation sources must be linear accelerated electrons (LINAC model). The use of radioisotopes and neutrons is not acceptable</p>
	<p>We request this requirement be changed to allow for both Betatron and Linac models. This requirement unduly restricts different types of x-ray systems, restricting competition to only LINAC types with no relationship to the performance of the systems.</p>
8	<p>Spatial resolution</p> <p>≤2mm steel wire in air</p>
	<p>The requirement appears to be wire detection and not spatial resolution. We request that the requirement be opened to 3.26 mm or better for wire detection or if spatial resolution of 7mm or better. Manufacturers may slightly vary their resolution and detection to allow for a smaller exclusion zone and higher throughput. 3.26m wire detection or 7mm spatial resolution is more than adequate for containerized cargo.</p>
	<p>This is amended as follows:</p> <p>Spatial resolution of 5mm or better at any location at the centre of the container.</p> <p>Wire detectability of 2mm or better (in free air).</p>
	<p>X-ray sources based on non-radioactive materials are acceptable.</p> <p>The use of radioisotopes and neutrons will not be acceptable.</p>

II. MINIMUM TECHNICAL SPECIFICATIONS FOR DRIVE-THROUGH SCANNER FOR SCANNING OUT OF GAUGE CARGO

No.	Feature	Minimum Requirements	Bidder clarification questions	KRA's Response
1	X-ray transmission technology	3) Low energy and high energy x-ray transmission, 3Mev and 6Mev respectively.	The MeV level is not directly proportional to a system's performance and thus we request that the MeV level be removed. (Just as you can get similar performance from a 4 cylinder and 6 cylinder car, you can get the same from different level	<p>Tender requirement prevails.</p> <p>The stated energy level is a minimum requirement hence 6MeV and 9 MeV are admissible.</p>

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		4) Organic and metallic will be marked as different colours. ≥300mm steel plate.	systems of Mev. Otherwise we ask that the Mev levels be expanded from to also include 6 and 9 MeV. We request this be changed to 250 or more mm. For larger and wider out of gauge cargo, the x-ray source and detectors are further apart, thus slightly reducing penetration. For such a penetration, the exclusion zone would be very large.	Must meet DUAL ENERGY requirement Tender requirement prevails. Most manufacturers meet and exceed 300mm minimum specification stated. Note that Acceptance Test will be performed on a standard testing kit and not actual cargo.
7	Penetration			
9	Contrast Sensitivity	≤2% 2mm thick steel sheet behind 100mm thick steel plate	We request opening up this requirement to 3 percent or better. For larger and wider out of gauge cargo, the x-ray source and detectors are further apart, thus slightly reducing contrast sensitivity.	Tender requirement prevails. Most manufacturers meet and exceed the minimum specification stated.
ADDENDUM				
6	X-ray source	The unit for the generation of the X-rays must produce photons of a suitable energy and intensity, for the complete inspection of containers. The radiation sources must be linear accelerated electrons (LINAC model). The use of radioisotopes and neutrons is not acceptable	We request this requirement be changed to allow for both Betatron and Linac models. This requirement unduly restricts different types of x-ray systems, restricting competition to only LINAC types with no relationship to the performance of the systems.	X-ray sources based on non-radioactive materials are acceptable. The use of radioisotopes and neutrons will not be acceptable
8	Spatial Resolution	≤2mm steel wire in air	The requirement appears to be wire detection and not spatial resolution. We request that the requirement be opened to 4.8 mm or better for wire detection or	This is amended as follows:

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		if spatial resolution of 8mm or better. Manufacturers may slightly vary their resolution and detection to allow for a smaller exclusion zone and higher throughput. 4.8 mm or better wire detection or 8mm spatial resolution is more than adequate for containerized cargo.	Spatial resolution of 5mm or better at any location at the centre of the container. Wire detectability of 2mm or better (in free air).
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V. MOBILE SCANNER TECHNICAL SPECIFICATIONS

No.	Feature	Minimum Requirements	Bidder clarification questions	KRA's Response
2	X-ray energy 6MeV and 3MeV	6MeV and 3MeV	The MeV level is not directly proportional to a system's performance and thus we request that the MeV level be removed. (Just as you can get similar performance from a 4 cylinder and 6 cylinder car, you can get the same from different level systems of Mev. Otherwise we ask that the Mev levels be expanded from 4 to 6.5 MeV.	Tender requirement prevails. The stated energy level is a minimum requirement hence 4MeV and 6.5 MeV are admissible. Must meet DUAL ENERGY requirement
4	Steel penetration	320 mm steel	We request that this be opened up to 220 mm or more to allow for medium energy mobile systems, which encompass more than 75% of the US Customs and Border Protection fleet of mobile scanners. Medium energy systems have more than adequate penetration and an exponentially smaller exclusion zone so that they can be used almost anywhere. Additionally they have much higher throughput equal to the drive through systems.	Tender requirement prevails. Most manufacturers meet and exceed the minimum specification stated.

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9	Contrast Sensitivity	<p>≤2% 2mm thick steel sheet behind 100mm thick steel plate</p>	<p>We request opening up this requirement to 3.5 percent or better. For larger and wider out of gauge cargo, the x-ray source and detectors are further apart, thus slightly reducing contrast sensitivity.</p>	<p>Tender requirement prevails.</p> <p>Stated contrast sensitivity is achievable.</p> <p>Note that Acceptance Test will be performed on a standard testing kit and not actual cargo.</p>
ADDENDUM				
1.	Type of X-ray source	<p>a)-Interlaced Dual-energy Electron Linear Accelerator. The unit for the generation of the Xrays must produce photons of a suitable energy and intensity, for the complete inspection of containers. The radiation sources must be linear accelerated electrons (LINAC model). b)-The use of radioisotopes and neutrons is not acceptable c)-Low and high energy configuration in operations</p>	<p>We request this requirement be changed to allow for both Betatron and Linac models. This requirement unduly restricts different types of x-ray systems, restricting competition to only LINAC types with no relationship to the performance of the systems.</p>	<p>X-ray sources based on non-radioactive materials are acceptable.</p> <p>The use of radioisotopes and neutrons will not be acceptable</p>
8	Spatial Resolution	<p>≤2mm steel wire in air</p>	<p>The requirement appears to be wire detection and not spatial resolution. We request that the requirement be opened to 3.26 mm or better for wire detection or if spatial resolution of 7mm or better. Manufacturers may slightly vary their resolution and detection to allow for a smaller exclusion zone and higher throughput. 3.26 mm or better wire</p>	<p>This is amended as follows:</p> <p>Spatial resolution of 5mm or better at any location at the centre of the container.</p> <p>Wire detectability of 2mm or better (in free air).</p>

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			detection or 7 mm spatial resolution is more than adequate for containerized cargo.	
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The Clarifications / Addendum form part of the bidding document and is binding to the bidder. All other terms and conditions of the tender remain the same. You are therefore required to immediately acknowledge the receipt of this addendum through eprocurement@kra.go.ke

Regards,



Benson Kiruja
For: Deputy Commissioner - Supply Chain Management