



**मुख्यालय राष्ट्रीय सुरक्षा गारद**  
(संभरण शाखा : ऑर्डनेंस अनुभाग)

**हैंड हैल्ड/वायरलेस रियल टाईम वीडिंग सिस्टम के लिए गुणात्मक आवश्यकता (क्यूआर) और परीक्षण निर्देशों (टीडी) के मसौदे को गृह मंत्रालय की वेबसाइट पर डालना**

1. कृपया गृह मंत्रालय, पीएम डिविजन के पत्र सं. IV-24011/14/2016-Prov.I-2405 दिनांक 05 अक्टूबर, 2016, पत्र सं. IV-24011/12/2011-Prov.I दिनांक 13 जून, 2012 और पत्र सं. 11012/02/2009-Fin-I/Prov-I-17 दिनांक 02 जनवरी, 2018 का संदर्भ लें।

2. हैंड हैल्ड/वायरलेस रियल टाईम वीडिंग सिस्टम के लिए गुणात्मक आवश्यकता (क्यूआर) और परीक्षण निर्देशों (टीडी) में संशोधन के लिए तकनीकी विशेषज्ञों के उप समूह की बैठक मुख्यालय राष्ट्रीय सुरक्षा गारद के कांफ्रेंस हॉल में दिनांक १७ अगस्त, 2021 को 1030 बजे आयोजित हुई।

3. बैठक के दौरान उप समूह ने कहा कि विक्रेताओं की टिप्पणियों/सुझावों को आमंत्रित करने के लिए हैंड हैल्ड/वायरलेस रियल टाईम वीडिंग सिस्टम के लिए गुणात्मक आवश्यकता (क्यूआर) और परीक्षण निर्देशों (टीडी) को 15 दिनों के लिए राष्ट्रीय सुरक्षा गारद के साथ-साथ गृह मंत्रालय की वेबसाइट पर डाला जाए।

4. पीएम डिविजन के उपर्युक्त संदर्भित पत्रों के अनुसार हैंड हैल्ड/वायरलेस रियल टाईम वीडिंग सिस्टम के लिए गुणात्मक आवश्यकता (क्यूआर) और परीक्षण निर्देशों (टीडी) का मसौदा संलग्न परिशिष्ट के अनुसार गृह मंत्रालय की वेबसाइट पर डालने हेतु प्रिंटेड कॉपी तथा सॉफ्ट कॉपी में भेजा जा रहा है।

  
(ब्रिजेश कुमार)  
गुप कमांडर

संलग्नक : उपर्युक्त

**तकनीकी निदेशक, एनआईसी, नार्थ ब्लॉक, नई दिल्ली**

सं. पी/604/19/389/HHRTVS/संभरण(ऑर्डनेंस)/एनएसजी

दिनांक : १७ अगस्त, 2021

हैंड हैल्ड/वायरलेस रियल टाईम वीडिंग सिस्टम के लिए गुणात्मक आवश्यकता (क्यूआर)/परीक्षण निर्देशों (टीडी) के मसौदे पर विक्रेताओं की टिप्पणियों का आमंत्रण

आपको सूचित किया जाता है कि हैंड हैल्ड/वायरलेस रियल टाईम वीडिंग सिस्टम के लिए गुणात्मक आवश्यकता (क्यूआर) और परीक्षण निर्देशों (टीडी) के मसौदे पर फर्मों/विक्रेताओं की टिप्पणियां आमंत्रित हैं। सभी फर्मों से निवेदन है कि नीचे दिए गए प्रारूप में वे अपनी टिप्पणियां भरकर ई-मेल पता [scord@nsg.gov.in](mailto:scord@nsg.gov.in) या [cproc@nsg.gov.in](mailto:cproc@nsg.gov.in) पर भेजें।

गुणात्मक आवश्यकता (क्यूआर)	परीक्षण निर्देश (टीडी)	फर्म द्वारा टिप्पणियां
----------------------------	------------------------	------------------------



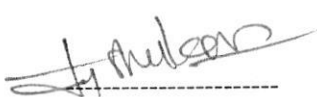
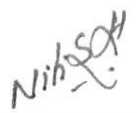

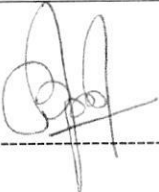
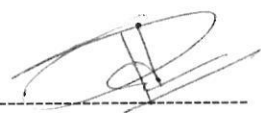

2. आपसे अनुरोध है कि वेबसाइट पर प्रदर्शित होने की तारीख से 15 दिनों के भीतर अपनी टिप्पणियां भेजें। उप समूह कमेटी की बैठक में उपर्युक्त उपकरण/हथियार के गुणात्मक आवश्यकताओं/परीक्षण निर्देशों को अंतिम रूप देने पर विचार किया जा रहा है।

दिनांक : 24 अगस्त, 2021

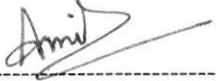


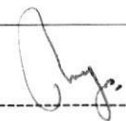
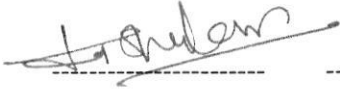
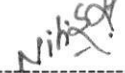


(ब्रिजेश कुमार)  
ग्रुप कमांडर

**DRAFT QR/ TDs OF HAND HELD/ WIRELESS REAL TIME VIEWING SYSTEM : 17 AUG 2021**

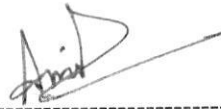
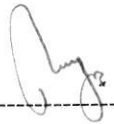
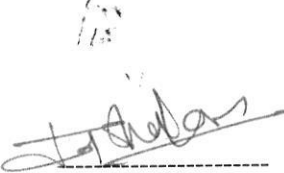



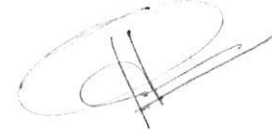

<b><u>S No</u></b>	<b><u>QR</u></b>	<b><u>Trial Directives</u></b>
1.	Handheld Real Time Viewing System is a compact portable X-Ray machine that can be carried in a backpack by a single individual and is designed to take digital 16 bit X-Ray image on the spot to locate power source, mechanism, detonator, explosive materials etc in any concealed suspicious boxes/enclosure items. The Hand Held Real Time Viewing System should have a compact Imager, X-Ray Source, Hand held tablet and Accessories as per below mentioned specifications	<p>1. The BOO to take X-Rays of various IED Models to include :</p> <p>(a) Plastic Briefcase (b) stainless steel/tool Steel Pipe Bomb (c) School Bag (d) Stainless steel Tiffin Box</p> <p>2. The system should be able to generate good quality X-Rays wherein various components which includes power source, mechanism, detonator, explosive materials in any concealed suspicious boxes/enclosure items</p>
2.	<b><u>IMAGER</u></b>	
	(i) Imaging Area should be minimum 30 cm X 35 cm.	To be physically checked by BOO
	(ii) Maximum width of imager size should not exceed 2.5 cm.	To be physically checked by BOO
	(iii) Bipod imager holder to be provided to hold the imager	To be physically checked by BOO
	(iv) Imager should be flat panel detectors of solid-state x-ray digital radiography using amorphous silicon or Linear detector array or better.	Firm to furnish certificate from International/national accredited lab.
	(v) Image Area Position: 8 mm or less from ground level.	To be physically checked by BOO To be physically checked by BOO
	(vi) Imager weight: Less than 5 Kg $\pm$ 15% with rechargeable battery.	To be physically checked by BOO


<u>S No</u>	<u>QR</u>	<u>Trial Directives</u>
2.	(vii) Dynamic Range / Bit Depth of the Imager should be True 16 bit or better.	Firm to furnish OEM certificate.
	(viii) Image quality should of high quality with high 16 bit resolution or better.	Firm to furnish OEM certificate.
	(ix) Imager should have inbuilt wireless data transfer.	To be physically checked by BOO
	(x) Seamless wireless connection from Imager to control/ display unit.	To be physically checked by BOO
	(xi) Continuous working time of the Imager not less than 4 hrs.	To be physically checked by BOO
	(xii) The Imager and X-Ray generator to be IP 53 rated or better.	Firm to furnish National/international accredited lab certificate.
	(xiii) User friendly to use.	To be physically checked by BOO
	(xiv) The system should facilitate ROV and Tripod mounting facility.	To be physically checked by BOO
3.	<u>X-Ray Source</u>	
	(i) The X-Ray source should be Pulsed or constant potential X-Ray Source.	Firm to furnish National/international accredited lab certificate. To be physically checked by BOO.
	(ii) The X-Ray source should not have any radioactive material.	Firm to furnish AERB "TYPE APPROVAL". To be physically checked by BOO
	(iii) <b>Penetration:</b> Should be able to penetrate minimum 25 mm of stainless steel/tool steel.	Detonators No 27 or 33 or all commercially available detonators or dummy detonators. wherein various components which includes power source, mechanism, explosive materials in any concealed suspicious boxes/enclosure items should be clearly identified  To be physically checked by BOO

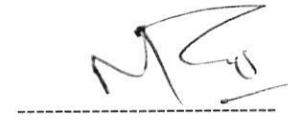









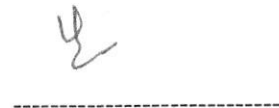
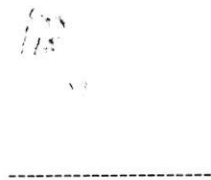
<u>S No</u>	<u>QR</u>	<u>Trial Directives</u>
3.	(iv) The X-Ray source should be of 100 KVP or more energy.	Firm to furnish National/international accredited lab/AERB certificate. To be physically check the authenticity of the certificate by BOO
	(v) The weight of X-Ray source with battery should be less than 6.5 Kgs.	To be physically checked by BOO
	(vi) Less X-Ray dose safe for use as certified by AERB.	Firm to furnish AERB "TYPE APPROVAL" to be physically checked by BOO
	(vii) The X-Ray source to be remotely operable through wireless option with only small connector from X-Ray Source to the ruggedized MIL STD 810 G/ Lemo connector of the wireless module.	To be physically checked by BOO
	(viii) The X-Ray Source to be operated with standard commercial available rechargeable batteries in open market. OEM should give undertaking for the same.	To be physically checked by BOO
	(ix) The system should facilitate ROV and Tripod mounting facility.	Compatibility with type of ROV to be decided at the time of indenter agency To be physically checked by BOO
	(x) The X Ray source must enable Dual energy mode	To be physically checked by BOO

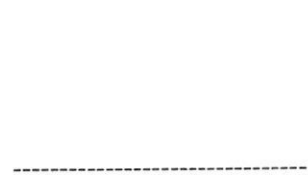
  
  
  
  
  
  
  


4.	<u>Display Unit</u>	
	(i) The display unit should be ruggedized tablet of MIL Std 810 G with minimum 10" screen size with HD daylight-readable with intel core i5 or latest processor, 8 GBRAM, 256 GB SSD Hard Disk, latest Operating System and USB connectors	Firm to furnish OEM certificate.
	(ii) The display unit should be completely touch screen for easy operation.	To be physically checked by BOO.
	(iii) The display unit weight with battery to be less than 1.5 Kgs.	To be checked by BOOs
	(iv) The display unit should be working on normal windows operating system.	Firm to furnish OEM Certificate/ Data Sheet
	(v) The display unit should be IP53 or better.	A certificate be provided by Firm from Govt recognized LAB





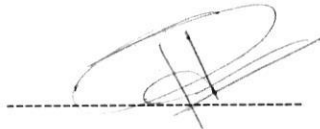



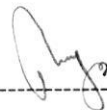




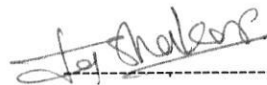
<u>S No</u>	<u>QR</u>	<u>Trial Directives</u>
5.	<b><u>System Accessories</u></b>	
	(i) <b><u>Communication</u></b> : Efficient Wireless data transfer. The wireless range should be minimum 200 meters (line of sight) without repeaters between imager and display unit and wireless data transfer between imager and x ray source.	To be checked by the BOO by operating the system from a distance of 200m. LOS distance between the imager and the Control Unit to be 200m
	(ii) Continuous working stand by time not less than 4 hours.	To be physically checked by BOO
	(iii) 110- 220V AC Battery Charger for the Display Unit (Tablet), X-Ray Source and imager along with spare bty to be provided with each equipment.	To be physically checked by BOO
	(iv) Provision of separate charging facility of Imager, X Ray Generator and Control/ display Unit simultaneously.	To be physically checked by BOO
	(v) The operating manual should be provided with each equipment.	To be physically checked by BOO
	(vi) The system should also operate on wired facility, 30 meter wire to be provided by the firm with option to extend the length with suitable Mil Grade connectors, in case of requirement. The weight of wire is excluded from total weight of the system	To be physically checked by BOO

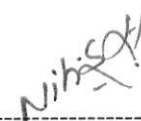




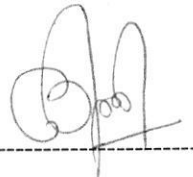




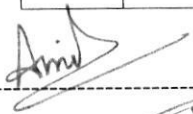
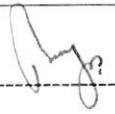
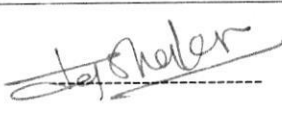
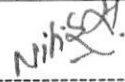
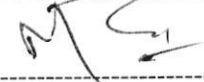
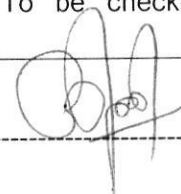








<u>S No</u>	<u>QR</u>	<u>Trial Directives</u>
5.	(vii) The display unit should come with the software having the following features :-	To be physically checked by BOO
	(a) Software which allows for taking just one image and enhancing both the easy to penetrate and difficult to penetrate objects on the same image showing everything with just one touch and highlighting all the threats.	To be physically checked by BOO
	(b) Image enhancement, 800% Zoom, Visual Data Base including picture name, time, Date & description and annotations.	To be physically checked by BOO
	(c) Split screen capabilities, Audible and Visual warning during X-Ray activation.	To be physically checked by BOO
	(d) Window Leveling, sharpening of images, Tilting/Rotation of anImage and on screen measurement facility, etc.	To be physically checked by BOO
	(e) <b>Software up gradation</b> Feature for Software Up gradation should be available.	To be physically checked by BOO
	(f) The software should provide image stitching facility.	To be physically checked by BOO
	(g) <b>Operational weight</b>  Overall operational weight of equipment including back pack, spare batteries and charger should not exceed 25 kgs.	To be physically checked by the BOO
6	<b>Misc</b>	OEM to furnish self-declaration certificate. To be checked physical by the BOO.
	(a) OEM to provide Manufacturer Recommended List of Spares along with self-declaration certificate.	
	(b) OEM to provide technical literature and maintenance manual.	OEM to furnish self-declaration certificate. To be checked physical by the BOO
	(c) OEM to provide all Complete Equipment Schedule (CES) items.	OEM to furnish self-declaration certificate. To be checked physical by the BOO.



	<b>Training.</b> a) OEM authorised firm to provide operator level training for operation.	OEM authorized firm to furnish self-declaration certificate. To be checked physical by the BOO.
	(b) OEM authorized firm to provide operator level training for repair and maintenance of the equipment.	OEM authorized firm to furnish self-declaration certificate. To be checked physical by the BOO.
	<b>Packaging</b> Ruggedized carrying case as per Mil std 810 G to be provided for storage and transportation	To be physically checked by BOO.

