

69/385973

ज्ञापांक.....69...../आपूर्ति

95-1-13-2017

पुलिस महानिदेशक का कार्यालय, बिहार, पटना

पटना,दिनांक- 05/09/2017

सेवा में,

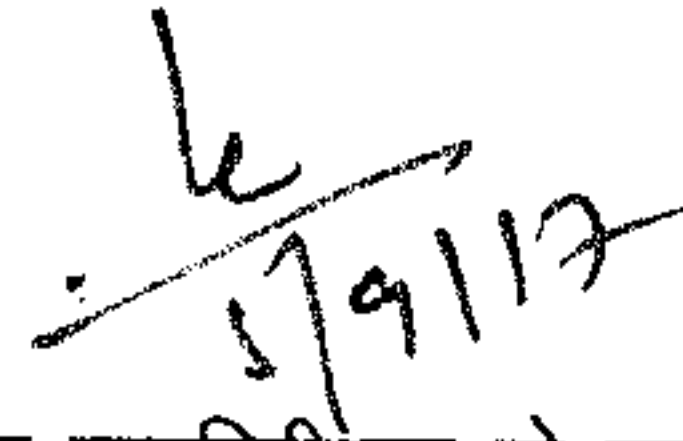
निदेशक,  
सूचना एवं जनसम्पर्क विभाग,  
बिहार, पटना

विषय- निविदा आमंत्रण सूचना सं०-27/2017-18 के प्रकाशन के संबंध में।

निदेशानुसार उपर्युक्त विषय के संबंध में निविदा आमंत्रण सूचना सं०-27/2017-18 की पाँच प्रतियाँ (सी०डी० सहित) संलग्न करते हुए अनुरोध है कि इसे राज्य एवं राज्य से बाहर के प्रमुख समाचार पत्रों में (अंग्रेजी एवं हिन्दी) के अगले दो संस्करणों में प्रकाशित कराने की कृपा की जाय साथ ही पी०आर०डी० वेबसाइट पर भी प्रसारित करने की कृपा की जाय।

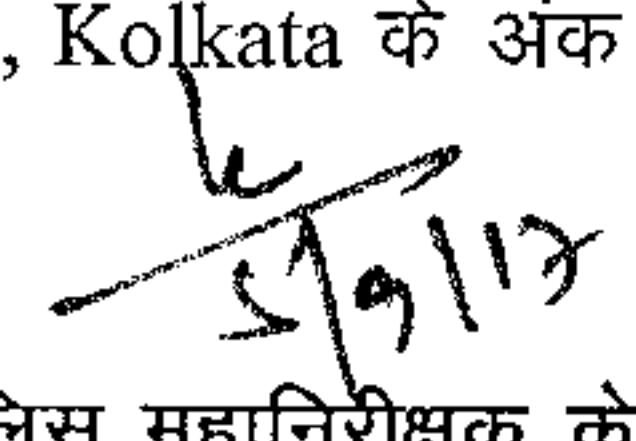
इस निविदा आमंत्रण सूचना का प्रकाशन किन-किन समाचार पत्रों में किया गया इसकी सूचना देने की कृपा की जाय।

अनु०-यथोपरि।

  
पुलिस महानिरीक्षक के सहायक (क्यू०),  
बिहार, पटना

प्रतिलिपि:-

1. आई०टी० मैनेजर, पुलिस महानिदेशक का कार्यालय, बिहार, पटना को कृपया सूचनार्थ। कृपया इसे आज ही वेबसाइट पर अपलोड किया जाय। साथ ही Indian Trade Journal, Kolkata के अंक में प्रकाशन हेतु Government of India, the Controller of Publications, Civil Lines, Delhi : 110 054,(Tel No. 011-23812527, FAX : 011-23817846), Email Id- sk.mondal.dgcis@nic.in के पतेपर भी अनिवार्य रूप से भेजा जाय।
2. Government of India, the Controller of Publications, Civil Lines, Delhi : 110 054,(Tel No. 011-23812527, FAX : 011-23817846), Email Id- sk.mondal.dgcis@nic.in को कृपया सूचनार्थ एवं आवश्यक क्रियार्थ प्रेषित। अनुरोध है कि उक्त निविदा का प्रकाशन Indian Trade Journal, Kolkata के अंक में करने की कृपा की जाय।

  
पुलिस महानिरीक्षक के सहायक (क्यू०),  
बिहार, पटना

121

**Police Headquarters, Bihar, Patna**  
**Notice Inviting Tender No.-27/2017-18**

1. Name of the Department: Office of Director General of Police, Bihar, Patna.
2. Last date & time for the acceptance of the tender : **25 / 09 / 2017**, Till 02:00 PM
3. Date & time fixed for the opening of the tender : **25 / 09 / 2017** At 04:00 PM
4. Place fixed for receiving & opening the tender : Office of Director General of Police, Bihar, Patna.
5. Details of Job:

S.N.	Item name	Quantity
1	X-Ray Scanner	01

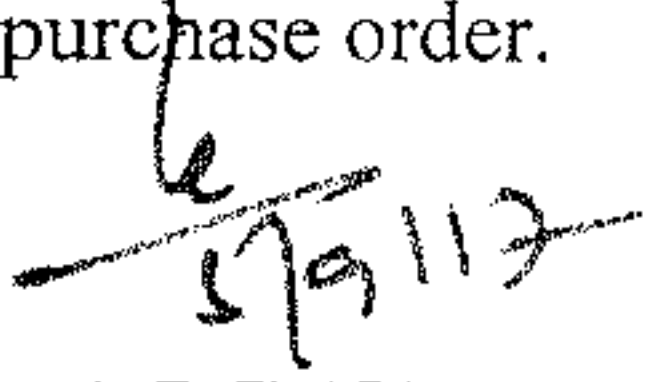
Specifications and other terms & conditions of the tender may be obtained in person from this office or may be downloaded from the website [www.prdbihar.gov.in](http://www.prdbihar.gov.in) or [www.biharpolice.bih.nic.in](http://www.biharpolice.bih.nic.in).

*6*  
*5/9/17*  
**AIG (Q)**  
Bihar, Patna.

## Terms & Conditions Of Tender No.-27/2017-18

1. Tender of the firm will be accepted only on the condition that if their tenders are approved, the firm shall get registered with the Commercial Tax Department, Bihar, before the purchase order is issued.
2. The tender should be submitted in two parts: (i) Technical Bid and (ii) Financial Bid, duly sealed in two separate envelopes super-scribed as "Technical Bid" and "Financial Bid".
3. All relevant papers/ E.M.D./certificates/specifications etc. of items should be enclosed in the Technical Bid.
4. The rates of the items shall be quoted in the Financial Bid only.
5. All charges like BST/CST/Service Tax /VAT etc. shall be clearly mentioned in the Financial Bid and the net rate (in figures and words) including all taxes and duties must also be quoted. Vague offers like indicating taxes "as applicable" will not be accepted.
6. The rates of the items shall be quoted in the Financial Bid in two parts :  
(i) With AMC (Annual Maintenance Contract) and (ii) Without AMC
7. There should be no cutting, over writing or correction on the rates.
8. The technical and financial bids for each item should be submitted separately in separate envelopes. The technical and financial bids for more than one items submitted together in the same envelope shall not be accepted.
9. If the financial bid is submitted in the same envelope containing the technical bid then also it shall be summarily rejected.
10. The technical and financial bids should be put in two separate sealed envelopes and the envelopes should be marked Tender No-27/2017-18 (Technical Bid) and Tender No-27/2017-18 (Financial Bid) along with the name and address of the firm. The sealed envelopes containing the technical and the financial bids should be sent in another sealed envelope which should be marked as Tender No-27/2017-18. This envelope should not bear the name and address of the firm.
11. Income Tax Returns of last three years, a photocopy of PAN of the participating firm and turn-over of any two of the previous three financial years should be submitted with the technical bid. It should be specifically mentioned whether IT return has been filed manually or electronically.
12. The turnover of the firm for the last reported financial year should be at least double the amount of the supply order which is being issued. A copy of the profit and loss Account of the firm for any two of the previous three financial years, certified by a Chartered Accountant should be submitted along with the tender. If the tenderer is authorized dealer or authorized supplier of manufacturing firm, then the certified details of the turnover of authorizing firm may be accepted. Tender specific authorization from the OEM must be submitted, but in certain cases where authorization from OEM is not required, the Technical-cum-User committee (T.U.C.) shall decide about exemption (if any) on a case-by-case basis; citing appropriate reasons for the same.
13. If there is some discount in the price of any item, it should be deducted from price itself and such discounts should not be quoted separately.
14. If the product is available on DGS & D rate contract, then a copy of the contract must be attached and pricing be done including all taxes.
15. A copy of the test report for the product issued by any established and recognized private Laboratory or by agency accredited by the Government should be attached with the technical bid. However if required, the Technical-cum-User committee (T.U.C.) can take decision regarding exemptions/relaxations (if any), citing appropriate reasons.

- 119
16. In case of Bullet Proof/Bullet Resistant items, test report of TBRL is compulsory.
  17. Firms participating in this tender shall also submit duly sworn affidavit to the effect that " this firm has not been black listed/debarred by any Government or Semi Government or Private Agency and no sister concern of this firm is participating in this tender."
  18. Firms participating in this tender shall also submit the self attested list of users of its equipments.
  19. All items shall be received at Central Clothing Store, Patna therefore price should be quoted FOR Central Clothing Store, Phulwari Sharif, Patna.
  20. Firms will have to deposit a sum of Rs.50, 000/- (Fifty Thousand) only as an earnest money deposit in the form of Bank Draft duly pledged in favor of the undersigned along with the quotations. The small scale units located in Bihar shall not be liable to deposit earnest money. Exemption from submitting E.M.D. will also be available to those who are registered with the Central Purchase Organization/State Purchase Organization and National Small Industries Corporation (NSIC).
  21. Technical Bids will be opened on scheduled date and time in the office chamber of Police Headquarter. Representatives of the firms competing in the tender may remain present at the time of opening of the technical bid.
  22. The technical bids will be opened first and placed before the Technical Committee of the Police Headquarters, Bihar. If the technical bids are found satisfactory as per tender conditions, it will be put before Central Purchase Committee of the Police Headquarters, Bihar. The firms may be required to participate in the demonstrations of the quoted product and discussions with this committee.
  23. Any paper/document will not be accepted after opening the tender.
  24. Successful firm will have to enter into an agreement after depositing a sum of 5% of the total value of the order as security money in the form of Bank Guarantee duly pledged in favor of undersigned.
  25. The firm will be required to provide satisfactory after-sales service after the delivery of the product.
  26. The firm will be required to supply all the items within the stipulated time frame as mentioned in the purchase order.
  27. Payment for the delivered items will be made only after the acceptance report of the Inspection Committee of the Police Headquarters, Bihar.
  28. The firm whose quotation is approved by the Central Purchase Committee of the Police Headquarters, Bihar, shall be invited to enter into an agreement with the undersigned.
  29. It is expected to submit the duly filled chart attached herewith, along with the technical bid.
  30. Indexing of the requisite documents must be done and submitted along with the technical bid.
  31. Hands on training of the equipment must be imparted to the user group by the firm.
  32. Director General of Police Bihar, Patna reserves the right to reject any or all the quotations partially or fully, without assigning any reason thereof.
  33. The Quantity indicated may increase or decrease at the time of issuing purchase order.

  
**A I G (Q)**  
**Bihar, Police.**

118

F.No. IV-21011/18/2009-Prov-I 9595  
Bharat Sarkar/Government of India  
Griha Mantralaya/Ministry of Home Affairs  
PM Division

26, Man Singh Road, Jaisalmer House  
New Delhi, Dated 14 November, 2014

To,

DsG: AR (through LOAR), BSF, CISF, CRPF, ITBP, SSB, NSG & BPR&D.


**Subject: Trial Directive for X-Ray Baggage Inspection System (Small & Large)**

The Trial Directives in respect of X-Ray Baggage Inspection System (Small & Large) as per Annexure have been accepted by the Competent Authority in MHA.

2. Henceforth, all the CAPFs should trial evaluate the above items strictly as per the laid down Trial Directives and Technical Specifications/QRs issued vide letter of even number dated 18.01.2011.

Yours faithfully,

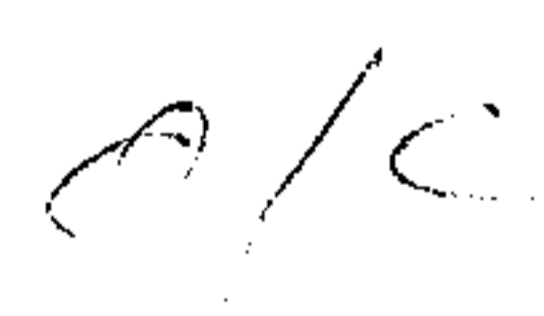
Encl: As above

  
( R.K. Soni)  
Section Officer (Prov-I)  
Tel: 23386034

Copy forwarded for necessary action to :-

The Section Officer (IT), MHA: It is requested to host the Trial Directives (soft copy attached) on the MHA website (under the page of Organizational Set up- Police Modernization Division- Qualitative Requirement under BDDS Equipments.

Copy to: Director (Procurement), MHA.



(108) 117

**DRAFT OF TRIAL DIRECTIVES FOR X-RAY BAGGAGE INSPECTION SYSTEM (SMALL SIZE).**

	<b>Technical Specifications</b>	<b>Trial Directives</b>
1.	Tunnel Size - 60 cm W ( width) x 40 cm H (Height) +/-10%	To be practically checked by the BOO through measuring instrument.
2.	Conveyor belt speed should be between 0.18 and 0.3 meter per second. Conveyor movement bidirectional.	To be practically checked by the BOO through Tachometer.
3.	All machines should operate on 230 VAC, 50 Hz power supply and should be able to withstand voltage fluctuations in the range of 170V to 260 V. Single Phase, 3 to 5 Amp.	Plug the machine through electrical component and check the operation of the machine within the specified range of power supply.
4.	Conveyor Capacity- 100 kg or more	To be practically checked,
5.	Through put should be 200 bags per hour or more	To be practically checked,
6.	Sensors > 1000 diodes, L-shaped detector (Folded array type), In case of defective diode arrays, scanning should be disabled and error message should be displayed on the screen.	To be physically checked,
7.	X-Ray Voltage - 140 KV or more	Plug the machine through electrical component and verify the X-Ray voltage on the screen of VDU.
8.	X-Ray Source/Generator – It should be capable to operate smoothly for a period of at least six years.	An OEM certificate must be provided by the firm.
9.	Duty Cycle - 100%	To be practically checked by the BOO. Put the machine continuous on for 24 hrs and ensure that machine functions properly .
10.	The X-ray beam divergence should be such that the complete image at maximum size of bag is displayed without corner cuts.	To be practically checked by the BOO. Place the baggage in the tunnel of machine and see the image on VDU. The complete image at maximum size of bag should be displayed without corner cuts on VDU.
11.	The radiation level should not exceed accepted health standard (0.1m R/Hr at a distance of 5 CM from external housing). Relevant certificate from AERB.	Atomic Energy Regulatory Board (AERB) certificate will be provided by the firm.
12.	The operating temperature normally should be -10 deg C to 50 deg C.	National/ International Government accredited lab certificate will be provided by the firm.
13.	Storage temperature -20 degree C to 50 degree C.	National/ International Government accredited lab certificate will be provided by the firm.
14.	Humidity- 90% non-condensing	National/ International Government accredited lab certificate will be provided by the firm.
15.	Resolution: The machine should be able to display	Scan the combined test piece (CTP) in

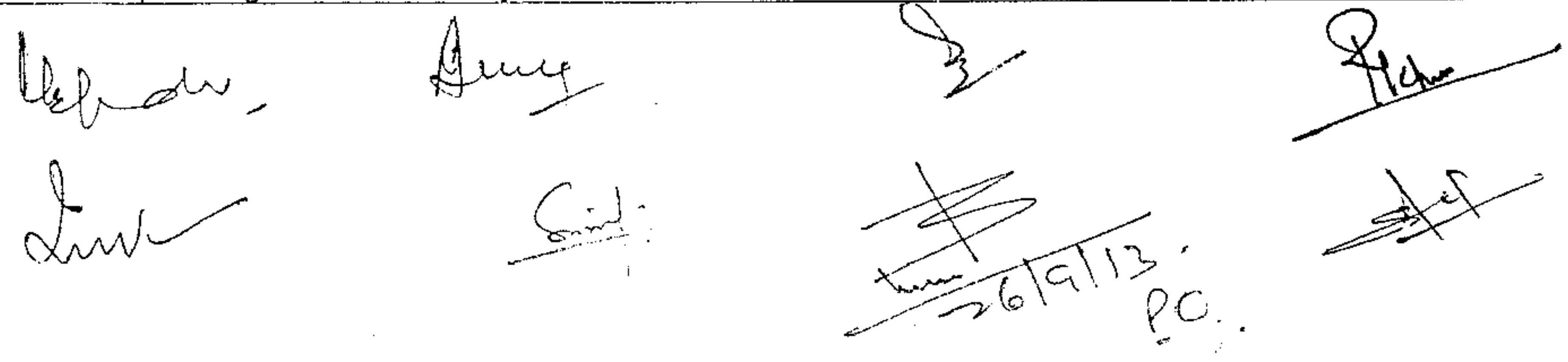
*[Handwritten signature]*  
*[Handwritten signature]*

*[Handwritten signature]*  
*[Handwritten signature]*

*[Handwritten signature]*  
*[Handwritten signature]*  
 26/9/13

*[Handwritten signature]*  
*[Handwritten signature]*

	Technical Specifications	Trial Directives
	single un-insulated tinned copper wire of 40-SWG or 36 AWG. All penetration and resolution condition should be met without pressing any functional key and should be online.	operational condition of machine without operating any functional key, thereafter 40-SWG or 36 AWG wire should be seen on the VDU.
16.	Penetration should be 27mm thickness of steel (Guaranteed) or more.	Scan the CTP in operational condition of machine and see the image of 27mm thickness of steel on VDU and verify the penetration accordingly.
17.	Continuous Electronic Zoom facility should be available to magnify the chosen area of an image eight times (8X) or more. Image features shall be keyboard controllable.	To be practically checked by the BOO.
18.	Video display- 17" or better LCD Monitor SVGA High resolution, low radiation, flicker free, resolution at least 1280 x 1024, 24 bit colour real time processing.	i) The size of video display to be physically checked by BOO. ii) Remaining parameters of the QRs to be checked through the technical literature of the product in addition to the certificate provided by the OEM confirming the parameters of QRs.
19.	The machine should have features of Multi-energy X-ray imaging facility where materials of different atomic number will be displayed in different colours to distinguish between organic and inorganic materials. With this method to distinguish high density organic materials including explosives. Machine should have variable colour or materials stripping to facilitate the operator to monitor images of organic materials for closer scrutiny. All suspicious items (Explosives, High density, material narcotics) should be displayed in one mode and that should be on line	Scan the CTP and check the multi energy X-ray imaging facility through the multi energy test (i.e. sugar & salt) to distinguish inorganic & organic materials with the colours on the VDU.
20.	<b>Radiation Safety</b> The machine must comply with requirements of health and safety regulations with regard to mechanical electrical and radiation hazards. Before installation of the machine, the supplier/manufacturer should furnish relevant certificate from Atomic Energy Regulatory Board of India regarding radiation safety. The company manufacturing the equipment should have ISO certification for manufacturing and servicing of X-ray Screening machines.	AERB certificate must be provided by the firm.
21.	Film - Safety Guaranteed safety for high-speed films up to ISO1600. The machines should be film safe. In other words photographic films must not be damaged due to X-Ray examination.	AERB certificate must be provided by the firm.


  
 [Signatures: K. Srinivas, S. Srinivas, S. Srinivas, S. Srinivas]
   
 Date: 26/9/13
   
 PC

Technical Specifications	Trial Directives
Machine should be properly sealed from all the sides for pest proof. Dust proof cover is to be provided for covering when system is not in use.	To be physically checked by BOO.
23. Facility for variable contrast must be incorporated to allow enhancement of lighter and darker portion of the image.	Scan the baggage through X-Ray machine and operate the variable contrast key for checking of enhancement of lighter & darker portion of the image.
24. The machine should be so designed that software enhancement can be easily implemented to take care of new technique in image processing and pattern recognition.	A certificate to this effect must be provided by the OEM & Vendor.
25. Full diagnostic built in test facility. All models should have software controlled diagnosis report facility and system should give printout if printer is connected.	To be practically checked by the BOO.
26. All software features of machine should be online and password protected.	To be practically checked by the BOO.
27. Machine should be capable for recalling 15 or more previous images,	To be practically checked by the BOO.
28. It should have the capability of archiving 3000 or more images with date & time stamp.	To be practically checked by the BOO.
29. Control desk with security housing and locking provision should be available. The operator personal identification number can be entered the keyboard along with generation of log.	To be practically checked by the BOO.
30. Facility of image enhancement should be available.	Scan the baggage through X-Ray machine and operate the image enhancement key available on the keyboard.
31. All models should have online recording facility and images can be recorded in CD R/W or/and USB and should be able to view images so recorded on stand-alone PC.	To be practically checked by the BOO.
32. Lead impregnated safety screens should be available at either ends of the tunnel. This should be covered by relevant AERB certificate. Idle rollers to be provided at either ends of the tunnel to facilitate placing of baggage at input and output.	i) AERB certificate must be provided by the firm in respect of Lead impregnated safety screens. ii) Provision of Idle roller to be physically checked by the Board.
33. All software features should be controlled from keyboard of machine only. Keyboard function should be user friendly. To enable/disable the software features system should not be rebooted	To be practically checked by the BOO.
34. If the machine fails to penetrate a particular item then an alarm video and audio both should be generated to notify the operator	To be practically checked by the BOO.

*Ugandan*  
*Linn*

*Secure*  
*Sanif*

*[Signature]*  
*[Signature]*  
26/9/13

*[Signature]*  
*[Signature]*



(105) 25  
114

	Technical Specifications	Trial Directives
35.	The threat image projection (TIP) system software to be incorporated in all X-Ray BIS operation as per details given in Annexure-I.	To be practically checked by the BOO as per Annexure-I.
36.	Copy of all software including X-Ray Software with recovery CD must be provided.	To be physically checked by the BOO.
37.	Operational Training- Operating staff has to be provided free training.	An undertaking to this effect must be provided by the firm.
38.	Operating & service manual shall be provided with each machine.	To be physically checked by the BOO.
39.	<b>Other Features</b> a) Edge & variable edge enhancement. b) Inverse Video c) Set up time not more than 10 minutes d) Pseudo colour e) Date & Time display.	i) The features mentioned at 39(a), (b), (d) & (e) to be practically checked by the BOO after scanning the baggage through X-Ray machine. ii) The feature 39(c) to be practically checked by the BOO. Time should be noted from plugging the machine through electrical component to bring the machine in operation condition.
40.	<b>Minimum Computer Configuration: -</b>  1. <b>CPU:</b> Should be able to deliver the output to meet the specifications mentioned as above.  2. <b>Hard Disk Drive:</b> 320 GB 7200 rpm serial ATA HDD or Better  3. <b>Mouse:</b> Optical  4. <b>Ports:</b> 6 USB Ports (with at least 2 in Front), 1 Serial Port, 1 Parallel port, 1 PS/2 Keyboard and 1 PS2 Mouse Port, audio ports for microphone and headphone in front.  5. <b>CD-R/RW Drive</b> : DVD Writer.  6. <b>Networking facility</b> : 10/100/1000 on board integrated Network Port with remote booting facility remote system installation, remote wake up, out of band management using any standard management software.	To be physically & practically checked by the BOO.
41.	UPS: - 2 KVA online with back-up time of ½ hour.	To be physically/ practically checked by the BOO.
	<b>TIPS Feature</b>	

Def  
Lundh

Beerus  
Smit

26/9/13

Prabu  
A.P.

(104) 113

Technical Specifications	Trial Directives
<p><b>Threat Image Projection</b></p> <p>Tip software facility shall be incorporated in the offered X-ray machine to assist supervisors in testing the operator alertness and training X-ray screeners to improve their ability in identifying specific threat object. The system will create a threat object and the same will be superimposed on the monitor screen while a bag is being screened. To acknowledge that the operator has seen the false object, operator must press the control panel key that will cause the computer generated threat object to disappear from x-rayed bag image on the VDU screen. Each operators action shall be recorded in the hard disc of the computer for the auditing purpose by the supervisor or other authorized person.</p>	<p>To be practically checked by the BOO.</p>
<p><b>DESIGN OF THE SYSTEM:</b></p>	
<p>02</p> <p>Tip software should be compatible with other X-ray technologies such as automatic reject unit. Dual X-Ray screen technologies, automatic treat recognition system etc. All x-ray image functions must be available at the same time along with the TIP.</p>	<p>To be practically checked by the BOO.</p>
<p><b>IMAGE LIBRARY</b></p>	
<p>03</p> <p>The image library should have an image library containing at least 100 explosives devices, 100 knives and 100 firearms in various sizes, shapes, locations and orientations. However, the system shall have facility to expand the library to incorporate additional images by user without assistance of the manufacture.</p>	<p>To be practically checked by the BOO.</p>
<p>04</p> <p>The image library should contain images of threats at different orientations both plan and end on orientation should be used. Although these will be assigned different file names and references, it must be possible to cross-reference these as the same threat. All threat image Projection images must be realistic, representative and non distinguishable from real threat items.</p>	<p>To be practically checked by the BOO.</p>
<p><b>TIME INTERVAL</b></p>	
<p>05</p> <p>Programming facility shall be available to project threat images in different intervals. The time period for threat image as well as image mix in percentage shall be user programmable e.g. software shall select 40% images of explosive devices, 35% of fire arms &amp; 25% knives or random etc.</p>	<p>To be practically checked by the BOO.</p>

*lep*      *Acery*      *S*      *P*  
*Linn*      *Smit*      *26/9/13*      *af*

(103)

112

	<b>Technical Specifications</b>	<b>Trial Directives</b>
	Once the screener has responded to identify the computer generated threat image, it should remain on the screen for a predefined user programmatic feedback message shall be visible to the screener.	To be practically checked by the BOO.
	<b>SYSTEM ADMINISTRATION</b>	
07	The threat image projection facility shall have details of user data-base such as Department name, screener name. Organization, User ID Number, level of access such screener, administrator, Maintenance & Password etc.	To be practically checked by the BOO.
08	Access to start up menu should be restricted only to the authorized individuals. A log-in procedure by means of "Password" or "Security Key" could achieve restricted access to each of the comment. The log-in procedure should not take longer than 20 seconds. The system should have facility to by pass the TIP facility, if programmed so by the system administrator. It is to be ensured that the TIP software shall not be hindrance to normal functioning of x-ray machines.	To be practically checked by the BOO.
09.	When the operator logs-in or logs-out message should be displayed on x-ray BIS VDU Screen to confirm that the/she has been correctly logged-in or logged-out.	To be practically checked by the BOO.
	<b>FEED BACK REPORT</b>	
10	The threat image Projection should be capable of giving feedback "HIT,MISS or FALSE ALARM" message. No message will be presented if a screener correctly passed as clear bag.	To be practically checked by the BOO.
11.	A "HIT" message to be presented when a screener has correctly identified a Threat image Projection Image. A "MISS" : message shall be presented when screener fails to identify the TIP image. A "False Alarm" message shall be given when screener incorrectly indicate TIP image when in fact no threat image projection is present. The feedback should clearly indicate in a screen that a tip object has been correctly identified/tip object has been missed/ that a TIP object has been missed/no TIP object was present. Information should be recorded in the database.	To be practically checked by the BOO.
12.	Different colour coding shall be used for feedback to the Screener., It is recommended that colour code "Red for MISS" Green for " HIT" and Yellow to False Alarm or interrupt" be used.	To be practically checked by the BOO.
13.	The system shall automatically prepare the daily log of events for each shift and for each Screener	To be practically checked by the BOO.

*Def*  
*Linn*

*Alvin*  
*Smit*

*S*  
*26/9/13*

*Flora*  
*Def*

Technical Specifications	Trial Directives
performance. TIP log shall include particulars of Name of Screener, Time & date of threat image, whether threat image was successfully identified or missed etc.	
14. The report on Threat Image Projection system may have date and time (From - to) as per requirement. Screener particulars, and decision/out come i.e. MISS, HIT or False Alarm in percentage as well in absolute numbers, numbers of bags screened, categories such as explosives devices knife or weapon etc.	To be practically checked by the BOO.
15. As a standard practice, daily/weekly /monthly report shall be retrieved. Report shall be for any given time and period, as per command.	To be practically checked by the BOO.
16. All data should be stored on the system for a minimum of two months after it has been down loaded. No individual, regardless of access rights to the Threat Image Projection components would delete or amend any of threat image Projection data or time i.e. Threat Image Projection data on the actual X-ray machine will be read only file.	To be practically checked by the BOO.

*M.S. Yadav*  
(M.S. Yadav AC)  
CRPF.

*A.K. Sharma*  
(A.K. Sharma AC CISF)

*S.K. Saha*  
(Dr. S.K. Saha, 2<sup>nd</sup> BSF)

*Rajesh Kumar*  
AC/40 ITRP

*R.S. Chand*  
(R.S. Chand, 2<sup>nd</sup> TSG, NDS)

*Sumit Gupta*  
(SUMIT GUPTA)  
PSO (E), BPR&D

*B.C. Joshi*  
(B.C. Joshi) DIG BSF

*Ashwani Kumar*  
SI/T ASHWANI KR.  
SIW BSF

APPROVED/NOT APPROVED

*Subhash Joshi*  
(SUBHASH JOSHI), IAS  
DIRECTOR GENERAL  
BORDER SECURITY FORCE