



सरदार वल्लभभाई पटेल राष्ट्रीय पुलिस अकादमी  
SARDAR VALLABHBHAI PATEL NATIONAL POLICE ACADEMY  
(भारत सरकार : गृह मंत्रालय)  
(Government of India : Ministry of Home Affairs)  
हैदराबाद - 500 052  
Hyderabad - 500 052

**OPEN TENDER NO : 27011/2/2016-17/HS.STW(i)**

**PROCUREMENT OF 02NOS X-RAY BAGGAGE INSPECTION SYSTEM FOR  
STW OF SARDAR VALLABHBHAI PATEL, NATIONAL POLICE ACADEMY,  
HYDERABAD**

Date of Tender Enquiry : 11/04/2017

Closing date & time of submitting bids : 04/05/2017 at 1200 Hrs.



Website: <http://www.eprocure.gov.in>

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हैदराबाद - 500 052  
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**OPEN TENDER**  
**(e-Tender)**

1. SVP National Police Academy, Shivrampally, Hyderabad, invites **e-bids** under two bid system from reputed firms for **procurement of 02 Nos X-Ray Baggage Inspection System (Medium size) with one year comprehensive onsite warranty for STW of Academy**. The store list and technical specifications are enclosed herewith.
2. Salient features of the tender enquiry are as follows:-

a)	Tender No.	27011/2/2016-17/HS.STW(i)
b)	Description of stores	Procurement of 02 Nos X-Ray Baggage Inspection System (Medium size) with one year comprehensive onsite warranty for STW of the Academy
c)	Specifications	As per Annexure-1
d)	Type of Tender	Open Tender
e)	Bid System	Two Bid System ( <b>Two cover Technical Bid &amp; financial Bid</b> )
f)	Earnest Money Deposit	Demand draft for Rs 78,000/- (Rupees Seventy eight thousand) drawn from any of the Commercial Banks in favour of the 'The Director, S.V.P National Police Academy, Hyderabad.
g)	Delivery schedule/ completion period	Delivery should be completed within 75 days from the date of supply order
h)	Terms of Delivery	Free on Rail/ Road (F.O.R) Destination, SVP NPA Hyderabad.
i)	Bid validity	Bid should be valid for <b>180 days</b> from the date of opening of bid.
j)	Address of correspondence	The Administrative Officer (Admn) SVP National Police Academy, Shivarampally, Hyderabad, Telangana - 500052
k)	Warranty	One year comprehensive onsite warranty from the date of installation.
l)	Training	Onsite training for the operator will be provided free of cost during installation of system.

3. Important dates related to this tender are furnished below for information: -

S.No.	Particulars	Date	Time
1.	Date of online publication of tender	11/04/2017	1200
2.	Starting date for downloading Tender document	11/04/2017	1300
3.	Bid submission starting date	11/04/2017	1400
4.	Bid submission closing date	04/05/2017	1200
5.	Closing date & time for submission of original copies of EMD	04/05/2017	1700
6.	Opening of technical bids.	05/05/2017	1200

4. Interested manufacturers/ authorised dealers/ stockists/ suppliers dealing with above items can download the tender document from CPP Portal ([www.eprocure.gov.in](http://www.eprocure.gov.in)) and bid can only be submitted through the same website. **Bid submitted other than CPP Portal will not be accepted.** The Eligible bidders should have the valid digital signature certificate (DSC) issued from any agency authorised by Controller of Certifying Authority (CCA), Govt. of India.

5. The bids are invited online under two cover system (Technical bid (Cover 1) and price bid/ bill of quantity (BOQ) (Cover 2)) from eligible bidders.

6. Bidders can access and download the tender documents from CPP Portal and can fill them with all relevant information and submit the completed tender document online on the website: <http://www.eprocure.gov.in>. The downloading of tender documents shall be carried out strictly as provided on the website. No editing, addition, deletion of matter shall be permitted. If such action is observed at any stage, such tenders are liable for outright rejection.

7. Tender shall be submitted online only at CPPP website. Bidders are advised to refer the Bidders manual kit for e-submission of the bids online through the Central Public procurement portal available at the website: <http://www.eprocure.gov.in>. Aspiring Bidders/ Suppliers who have not enrolled/ registered in e-procurement should enroll/register before participating through the website <http://www.eprocure.gov.in>. The portal enrolment is free of cost.

8. All the documents as per tender requirement should be uploaded online and further, no documents will be accepted offline. However, Demand Draft (EMD – Earnest money deposit) hard copy should be sent to SVP National Police Academy before the due date of opening. Bidders who are not submitting any of the required documents online will summarily be rejected.

9. The details of the Tender document and EMD should be filled and uploaded online. Earnest Money Deposit (EMD) for **Rs.78,000/- (Rupees Seventy eight thousand only)** (Refundable ) should be deposited in form of Crossed Demand draft Drawn on any nationalized bank in favour of Director, SVP National Police Academy, payable at SBH, Shivarampally, Hyderabad. **Bids without EMD will not be considered.** Tender Reference Number or details should be mentioned on the backside of the original crossed Demand Draft and the same should be sent to SVP National Policy Academy, Hyderabad before due date of opening of the tender.

(Contd. 3)

### **Terms and Conditions**

10. The TIA (Tender inviting authority) will not be held responsible for any sort of delay or the difficulties faced during the submission of bids online by the bidders at the eleventh hour. For any queries regarding e-tendering process, the bidders are requested to contact over phone : 08826246593 ,07799289911 or send a mail over to [cphp-nic@nic.in](mailto:cppp-nic@nic.in).
11. Technical bid should include information related to all specifications sought. It should also contain company brochures of all equipments and should be accompanied by relevant technical documents issued by the manufacturer in support of specifications asked for.
12. Delivery/installation is to be completed within 75 days from the date of Supply Order failing which, penalty @ 0.5% of the Supply Order value will be recovered for every week period delay from the final payment. Further in case of inordinate delay of 90 days from the date of Supply Order, this Supply order stands cancelled without any further notice and you will also be liable to be blacklisted.
13. The date of placing the order shall be the date of dispatch of order of the delivery there of to the tenderer, when such order is being delivered through some person.
14. If the tenderer fails to supply goods within stipulated delivery period then the purchase order will stand cancelled and the security deposits shall be forfeited. In addition, the tenderer may be blacklisted for a definite period to be decided by SVP NPA, during which no supply order would be given to the blacklisted tenderer. In this case, order for the same product(s) will be awarded to the L2 tenderer based on the same documentation & processes.
15. After the expiry of the stipulated delivery period, which includes extension period if any, no item shall be accepted by SVP NPA. If the tenderer applies for the extension of the delivery period, the extension can be granted on valid grounds only once and up to a maximum of 30 days.
16. Payments would be made only after the receipt of all the items ordered in the supply order. In cases, where part supply has been made and the supply order for the remaining items has been cancelled, payment would be made for the supplied items after deducting the penalty, if any.
17. No interest will be allowed on the Earnest Money Deposit or security deposits so remitted and no claim shall be entertained in respect of the same. It may specifically be noted that ordinarily payment will be made only after full supplies are completed as per orders and that no advance payment can be arranged.
18. The tenderer shall be responsible for the proper packing of goods so as to avoid damages under normal conditions of transport by rail, road or air and for delivery of the material in good conditions to the consignee at destination. In the event of any loss, damage breakage, leakage or any shortage tenderer shall be liable to make good such loss or shortage.

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19. **Bid Validity.** The Bid/ Tender submitted shall necessarily remain valid for 180 days. If any bidder withdraws his tender before the said period, SVP NPA shall without prejudice to any other right or remedy, be at liberty to forfeit the bid security submitted alongwith the bid.

20. **Warranty.** One year comprehensive onsite warranty support from the date of installation.

21. **Performance Security Clause.** The successful bidder shall have to deposit a performance security of 5% of the contract value of the supply/ purchase order rounded up to next hundred in the form of account payee demand draft/ bank guarantee from a nationalized/ scheduled commercial bank in favour of the Director, SVP NPA Hyderabad payable at SBH Shivrampally, Hyderabad within 15 days of the placement of supply order for due performance as per the provisions contained in GFR – 158. Failure on the part of the firm to deposit the performance security within stipulated time the purchaser reserves the right to cancel the Supply Order. Performance Security submitted by the bidder will remain valid for a period of sixty days beyond the date of completion of all contractual obligations of the supplier including warranty obligations. No interest will be payable for "Performance Security."

22. The Director, SVP National Police Academy reserves the right to order full or part thereof of the items enclosed or accept/ reject any or all the bids without assigning any reason.

23. Terms of Payment. No advance payment or payment against proforma invoice will be made. Payment will be made only after completion of supply & installation.

24. Prices shall be quoted in Indian rupees only.

25. The prices once accepted by the Purchaser shall remain valid till the successful execution of the complete order to the satisfaction of the Academy. The Academy shall not entertain any increase in the prices during the period. In the event there is a reduction or increase in Government levy/ duties during the period of execution of the order, the rates shall be suitably adjusted with effect from the date notifying the said reduction or increase in the Government levy/ excise duty. However, the Purchaser is not liable to any claim from the Supplier on account of fresh imposition and/ or increase of Excise Duty, Customs Duty, Sales Tax etc. on raw materials and/ or components used directly in the manufacture of contracted goods taking place during the pendency of contract.

26. Following scanned documents in **pdf file** format must be enclosed in cover duly sealed and stamped.

- (a) Firm Registration Certificate as per the Companies Act of India.
- (b) ISO Certification.
- (c) Banker details.
- (d) Details of previous experience/ supply.
- (e) Authorization certificate from OEM. Vendor should have presence in Hyderabad/ Secunderabad.
- (f) Sales Tax clearance & VAT Registration.

(Contd.5)

- (g) Income Tax Returns and details of last year turnover.
- (h) Scanned copy of EMD Demand Draft drawn in favour of 'The Director, S.V.P. National Police Academy, Hyderabad' submitted in portal followed by original copy before closing of tender date at the address of the Administrative Officer (Admn.), SVP National Police Academy, Shivarampally, Hyderabad. Offers received without the prescribed EMD will be rejected summarily.
- (i) Firms should be submitting only required documents and numbering of all the pages is necessary. Checklist of all the important documents should also be enclosed in the bid.
- (j) Financial bid (In excel file like BoQ): - The rates i.e. unit rate of each item and total amount including all taxes, labour charges, if any, are to be quoted explicitly both in words and figures. The Price Bid/ BOQ template must not be modified or replaced by the bidder; else the bid submitted is liable to be rejected for this tender.

27. **Taxes and duties.**

- (a) Vendor shall be entirely responsible for all taxes, duties, license fees etc. incurred until delivery of the contracted services to the Academy.
- (b) No bid will be considered unless and until all the pages / documents comprising the bid are properly numbered, signed and stamped by the person/s authorized to do so.

28. **Right to cancel the order.** The Director, SVP National Police Academy reserves the right to cancel the purchase order without any financial repercussion on either side and without seeking the consent of the supplier at any stage of purchase process. No further correspondence in this matter will be entertained.

29. **Demonstration of Offered Equipment.** The bidders should provide demonstration of equipment offered, in case the TPC so desires. Failure to provide samples/ offer demonstration shall entail rejection of bid forthwith.

Yours faithfully,



(K.Shankar)  
Administrative Officer (Admn.)  
SVP NPA Hyderabad

Copy to: Programmer with a request to please get the above requirement posted in NPA Website and provides a link

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Gram: 'POLACADEMY' e-mail:administrator@svpnpa.gov.in Tel: 91-040-24015151 to 24015158 Fax: 91-040-24015179



**QRs/TECHNICAL SPECIFICATIONS OF THE X-RAY BAGGAGE INSPECTION SYSTEM**  
**(SMALL SIZE)**

<b>Ser No</b>	<b>Specification of Proposed X-Ray Baggage Inspection System</b>	<b>Compliance Yes/No</b>
	<b>Make/ Model</b>	
1.	Tunnel Size – 60 cm W (width) x 40 cm H (Height) or better	
2.	Conveyor belt speed should be between 0.18 and 0.3 meter per second. Conveyor movement bidirectional.	
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 260V. Single Phase, 3 to 5 Amp.	
4.	Conveyor Capacity – 160 kg or more	
5.	Through put should be 200 bags per hours or more.	
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.	
7.	X-Ray Voltage – Maximum 160 KV	
8.	X-Ray Source/Generator – It should be capable to operate smoothly for a period of at least six years.	
9.	Duty Cycle – 100%	
10.	The X-ray beam divergence should be such that the complete image at maximum size of bag is displayed without corner cuts.	
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.	
12.	The operating temperature normally should be 0 deg C to 40 deg C	
13.	Storage temperature 0 degree C to 50 degree C.	
14.	Humidity – 90% non-condensing	
15.	Resolution : The machine should be able to display single un-insulated tinned copper wire of 42-SWG or 38 AWG. All penetration and resolution condition should be met without pressing any functional key and should be online.	
16.	Penetration should be 35 mm thickness of steel or more.	
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.	
18.	Video display – 18.5” or better LCD Monitor SVGA High resolution, low radiation, flicker free, resolution at least 1280 x 1024, 24 bit colour real time processing.	
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.	

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20.	<p>Radiation Safety</p> <p>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.</p>	
21.	<p>Film-Safety</p> <p>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.</p>	
22.	<p>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.</p>	
23.	<p>Facility for variable contrast must be incorporated to allow enhancement of lighter and darker portion of the image.</p>	
24.	<p>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.</p>	
25.	<p>Full diagnostic built in test facility. All models should have software controlled diagnosis report facility and system should give printout if printer is connected.</p>	
26.	<p>All software features of machine should be online and password protected.</p>	
27.	<p>Machine should be capable for recalling 15 or more previous images.</p>	
28.	<p>It should have the capability of archiving 3000 or more images with date &amp; time stamp.</p>	
29.	<p>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.</p>	
30.	<p>Facility of image enhancement should be available.</p>	
31.	<p>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 standalone PC.</p>	
32.	<p>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.</p>	
33.	<p>All software features should be controlled from key board of machine only. Keyboard function should be user friendly. To enable/disable the software features system should not be rebooted.</p>	
34.	<p>If the machine fails to penetrate a particular item then an alarm video and audio both should be generated to notify the operator.</p>	
35.	<p>The threat image projection (TIP) system software to be incorporated in all X-Ray BIS operation as per details given in Annexure-I.</p>	
36.	<p>Copy of all software including X-Ray Software with recovery CD must be provided.</p>	
37.	<p>Operational Training- Operating staff has to be provided free training.</p>	
38.	<p>Operating &amp; service manual shall be provided with each machine.</p>	



39.	Other Features a) Edge & variable edge enhancement. b) Inverse Video c) Set up time not more than 10 minutes d) Pseudo colour e) Date & Time display.	
40.	Minimum Computer Configuration :- 1. CPU : Should be able to deliver the output to meet the specifications mentioned as above. 2. Hard Disk Drive : 500 GB 7200 rpm serial ATA HDD or Better. 3. Mouse : Optical 4. Ports : 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. CD-R/RW Drive : DVD Writer. 6. Networking facility: 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.	
41.	UPS: - 3 KVA online with back-up time of ½ hour to whole system.	
<b>TIPS FEATURE</b>		
<b>THREAT IMAGE PROJECTION</b>		
01	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-ray 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 authorised person.	
<b>DESIGN OF THE SYSTEM</b>		
02	TIP software should be compatible with other X-ray technologies such as automatic reject Unit. Dual X-ray screen technologies, automatic threat recognition system etc. All x-ray image functions must be available at the same time along with the TIP.	
<b>IMAGE LIBRARY</b>		
03	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 orientation. However, the system shall have facility to expand the library to incorporate additional images by user without assistance of the manufacture.	
04	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.	

	<b>TIME INTERVAL</b>	
05	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 & 25% knives or random etc.	
06	Once the screener has respond 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.	
	<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.	
08	Access to start up menu should be restricted only to the authorised 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 bypass 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 machine.	
09	When the operator logs-in or logs-out message should be displayed on X-ray BIS VDU screen to confirm that he/she has been correctly logged-in or logged-out.	
	<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.	
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.	
12	Different colour coding shall be used for feedback to the Screener. It is recommended that colour code "Red for MISS" Green for "HIT" Yellow to FALSE ALARM or interrupt " be used.	
13	The system shall automatically prepare the daily log of events for each shift and for each Screener performance. TIP log shall include particulars of Name of Screener, Time & Date of threat image, weather 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/outcome i.e MISS, HIT or FALSE ALARM in percentage as well in absolute numbers, numbers of bags screened, categories such as explosives device knife or weapons etc.	
15	As a standard practice, daily/weekly /monthly report shall be retrieved. Report shall be for any given time and period as per command.	

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.	
<b>PRE-QUALIFICATION CRITERIA</b>		
1	Company must have minimum 5 years of experience in similar products of same make of Original Equipment Manufacturers (OEM)	
2	Company to provide the list of Customers to which it sold the X-ray Baggage scanners in last 5 years with Model No. and year of supply.	
3	Company should have authorization from OEM for 10 years for after Sales support and spare support.	
4	Company should have installation base of minimum 50 X-ray baggage scanners in India.	
5	Satisfactory after sales services certificates must be enclosed from minimum 25 users for last five years for similar kind of machines.	
6	Machine to have certification to be installed at all places including Police, Paramilitary, defence & Airports.	
7	Quoted products must have AERB certification.	
8	Company must have full fledged service network in India. Company to provide contact details of service engineers employed for X-Ray Baggage Scanner in Telangana – Mobile No. & company email Ids.	



(K.Shankar)

Administrative Officer (Admn.)  
SVP NPA Hyderabad

