

भारत सरकार  
अन्तरिक्ष विभाग  
**राष्ट्रीय सुदूर संवेदन केन्द्र**  
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**Tender Number : PT-66/ 6-2011000898**

**Last Date for issue of Tender Documents : 16.02.2012 upto 1630 hrs**

**Due on : 17.02.2012 upto 1030 hrs**

**Tender Opening Date: 17.02.2012 at 1400 hrs**

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**TENDER DOCUMENT**

Sl.No	Description of Material	Quantity
1.	Supply, installation, commissioning and testing of X-ray Baggage Inspection System with accessories at NRSC, Shadnagar, Mahboobnagar District Make: RAPISCAN / ECIL / SMITH DETECTION / ASTROPHYSICS / FISCAN.  • Technical specifications as per Annexure-I • Terms and conditions as per Annexure-II	02 Nos

Senior Purchase & Stores Officer

: 1 :

**X-RAY baggage inspection system**

Supply, installation, commissioning and testing of 2 nos of X-BIS systems at NRSC Shadnagar as per the Technical Specifications and Terms & conditions given below.

Specific brands: ECIL, Rapiscan, Smith detection, Astrophysics, Fiscan

**Terms and conditions:**

The X-BIS systems are to be supplied and installed at NRSC Shadnagar campus.

The site of installation may be inspected by the supplier before delivery and installation of the system. Drawing showing installation of the systems inside the room must be given before starting installation.

Input power point for X-BIS will be provided inside the room. Necessary cabling from this source power point to the X-BIS system has to be provided by the supplier.

Each X-BIS system must be supplied with 2 sets of operation, maintenance manuals, relevant drawings etc.

Certification from Original Equipment Manufacturer (OEM) regarding authorized dealership and maintenance support during the service life of the X-BIS to be submitted by the supplier.

All the relevant test and compliance certificates must be submitted.

Training to be imparted to the identified NRSC operating staff at our site for trouble free operations of the system.

Warranty to be given for one year from the date of installation of the system. AMC (Comprehensive) terms after expiry of warranty period may be specified by the supplier.

The rates quoted by the supplier shall be firm and valid for atleast four months from the date of opening of quotations.

Supplier must make their own arrangements for the necessary tools, equipment / materials; manpower for movement of machine etc, till the installation of the systems is completed.

Declaration regarding supply and installation of similar X-BIS systems made earlier by the suppliers at various organizations may be submitted.

Total breakup of cost viz, basic cost, taxes and duties, installation charges, service taxes and any other charges etc may be provided. Breakup for each item of the system (main module, rollers, computer and display, UPS etc) also must be given.

Technical compliance statement as per our specifications must be submitted by the supplier. Catalogue, brochures etc in support of the specifications for the models offered must be enclosed.

**Technical Specifications:**

Sl No	Description	Specification
1	Physical specifications	Tunnel size: 620 to 640 mm (W) x 415 to 430 mm (H)
		Conveyor speed: 0.22 m/sec or higher. Bidirectional conveyor.
		Conveyor maximum load: About 160 KG (or more) evenly distributed.
		Conveyor height: atleast 640 mm or higher
		System power: To work on 230 V AC +/-10 %, 50 Hz. However to work on UPS only.
2	X-ray generator and image performance	Steel penetration:29 mm typical; 27 mm guaranteed
		Wire resolution: 40 AWG typical; 38 AWG guaranteed
		Material separation: Low Z, Medium Z, High Z to 0.5 Z accuracy
		Generator Cooling: Sealed oil bath with forced air
		Contrast Sensitivity: 4096 Grey levels
		Anode voltage: Within permissible range
		Tube current: As per the design
3	Operating Environment	Storage Temperature: up to 50° C
		Operating Temperature: 0° to 40° C
		Relative Humidity: 5 to 95 %
4	Health & Safety	<ul style="list-style-type: none"> <li>- The operation of X-ray machine shall not cause the radiation to exceed 0.1 mR /hr (1 micro Sv/hr) in contact with outer panels as per the standards.</li> <li>- Film Safety Certification from AERB: For ISO 1600/33DIN, guaranteed up to 10 times exposure to radiation.</li> <li>- Compliance to: CE, FCC &amp; IEC , ISO 9001:2008</li> <li>- Food Safety Certification from AERB</li> </ul>
5	Other Features	1. Multi energy imaging
		2. Should provide crystal clear images of the scanned items.
		3. Option to select Black & white / color viewing to be available.
		4. 3 / 6 color display of images.
		5. Organic/ inorganic stripping
		6. Inverse video
		7. High penetration
		8. Variable color stripping
		9. Variable density zoom
		10. Facility to zoom up to 32 X or more
		11. Facility to view previous bag
		12. Built-in software for 9 Quadrant division of screen, real time threat identification, continuous self diagnostics, auto centering of image, image annotation, image smoothing etc.
		13. Facility for Manual and Automatic Image Archiving
		14. Facility to count baggage
		15. Display of Date /time
		16. Should have search indicator

		17. Threat image projection (TIP)
		18. Have facility of density threshold alert (DTA)
		19. Manual Scanning facility.
		20. Control Desk: Monitor & Control panel mounted on a desk
		21. Conveyor Accessories (Input/ Output Rollers). 0.5mtr I/O rollers to be provided one each at both ends.
		22. Image Printing Facility.
		23. Suitable rated UPS system as mentioned below.
		24. Operator training to be imparted at NRSC.
		25. Network interface: Ethernet port with LAN / Internet. USB connectivity. Option for remote control / remote power ON / OFF.
6	<b>Computer Specifications</b>	Processor: Core i5-650 (3.2 GHZ / 4 MB Cache)
		Memory: 2 GB RAM or better
		Hard disk: 500 GB HDD
		Video Card: 500 MB Graphic card or better
		Platform: Windows OS suitable for the application
		20" LCD monitor with display Resolutions: 1024 X 768; 32 bit True color.
7.	<b>UPS</b>	Required capacity of solid state on-line UPS system to support the total load of XBIS system should be supplied and installed along with the X-BIS system. The battery backup time from UPS must be atleast 10 minutes.
8	<b>X-BIS Product Life</b>	Atleast 10 years, Under Standard Environmental Conditions/ Usage. Spares / maintenance support for the service life to be assured.
9	<b>Warranty</b>	12 Months from the date of Installation or 15 months from date of dispatch. Post warranty AMC terms must be specified by the vendors.
10	<b>Spares</b>	Spares to be made available at local Office of the supplier and critical spares must be stocked by the supplier for quick response to failures.
11	<b>Maintenance</b>	During breakdown of the system it is expected that the system is attended by the supplier's service engineer and the problem rectified within 24-48 hrs. During the event of any major breakdown lasting for more than one a week during the warranty period, supplier must make arrangements for supplying a standby system during the period of unavailability of the main system.
12	<b>Customer Support</b>	After the completion of Installation & Commissioning, Preventive Maintenance has to be carried out atleast every Quarter during the Warranty period.
13.	<b>Training</b>	On-site training after installation and operations of system to be provided to all the concerned operators at NRSC Shadnagar.

## ANNEXURE-II

### TERMS AND CONDITIONS

01. Quotation should be submitted in a sealed envelope superscribing Tender Number and Due Date and Senders Name with full address including telephone numbers/fax numbers.
  02. Quotation should be valid for a period of 90 days from the date of opening of the bids.
  03. The goods / material offered should be strictly as per our specifications. Change(s) in specifications, if any, should be clearly indicated by the supplier in his quotation. The supplier should also indicate make/type of the materials offered. Vague terms such as "Best Indian" , "Best Indigenous", and "Imported Make" are not acceptable.
  04. Apart from the manufacturers, only authorized dealers/agents or their accredited representatives for original manufacturers shall submit the quotation with documentary evidence.
  05. List of previous installation of similar items carried out by the supplier shall be furnished along with Bid.
  06.
    - a) Facility of after sales service to be confirmed with details.
    - b) Firms with Sales-tax registration only need apply: Mention CST/APGST Registration number with validity date.
    - c) Permanent Account Number (PAN) allotted by Income-Tax authorities shall be furnished with documentary proof. Otherwise, documentary proof for having applied for PAN should be provided.
- Note: (b) & (c) above are applicable for Indian Companies only.
07. Details of branch offices available in India including local office if any, shall be specified in the offer.
  08. In case of imported stores, FOB/FCA price should be indicated. In case of indigenous stores the quotation should be on FOR-Destination basis.
  09. Indian Agent shall quote on behalf of only one Principal for all the items. If the Indian Agent quotes on behalf of multiple Principals for the same item, his quotation will not be considered. Indian Agent's commission if any and the percentage included in the quoted price should be indicated clearly.

10. Delivery period should be specified. For delayed deliveries and delays in installation NRSC reserves the right to levy Liquidated Damages @ 0.5% of the value per week or part of a week subject to a maximum of 10% value of goods that could not be put to use due to late supply / delay in installation, whichever is lower.
11. **Mode of Payment:** For imported stores, our normal payment terms are “90% payment through Sight Draft and balance 10% upon satisfactory completion of installation and acceptance of the equipment and on production of a performance bank guarantee for an equal amount, valid for the period of warranty + two months towards grace period”. For indigenous supplies, the terms of payment are “ 90% within 30 days of receipt, installation and acceptance of material and balance 10% on production of a performance bank guarantee for an equal amount, valid for the period of warranty + two months towards grace period”.
12. For indigenous stores, the applicable rates of Excise Duty and Sales Tax should be clearly mentioned. Terms like “ **Tax / Excise duty as applicable**” etc. will not be accepted. Please note that NRSC will not provide Form C/D.
13. Warranty : 12 months from the date of installation or 15 months from the date of dispatch. Post warranty AMC terms must be specified.
14. Literature/Technical data should accompany the quotation.
15. Place of Delivery & Installation: NRSC, Shadnagar, Mahboobnagar District..
16. The Head P&S, NRSC reserves the right to accept or reject any quotation in full or part thereof without assigning any reason.
17. This Tender Document can also be downloaded from our website [www.nrsc.gov.in](http://www.nrsc.gov.in) / [www.isro.gov.in](http://www.isro.gov.in) and quotations submitted directly on or before the due date. However, such tenderers shall invariably enclose to their quotation Tender Fee of Rs.220/- in the form of crossed Demand Draft drawn in favour of “ Pay & Accounts Officer, NRSC ” on a scheduled nationalized bank , **without which such offers will not be considered.**

SENIOR PURCHASE & STORES OFFICER