



ALL INDIA INSTITUTE OF MEDICAL SCIENCES, BATHINDA  
JODHPUR ROMANA, MANDI DABWALI ROAD, BATHINDA, PUNJAB 151001  
ਅਖਿਲ ਭਾਰਤੀ ਆਯੁਰਵਿਗਿਆਨ ਸੰਸਥਾਨ, ਬਠਿੰਡਾ ਅਖਿਲ ਭਾਰਤੀ ਆਯੁਰਵਿਗਿਆਨ ਸੰਸਥਾਨ, ਬਠਿੰਡਾ

PROCUREMENT CELL



No. AIIMS Bathinda/Procurement/NOC/ 773

09 Mar 2022

Subject: Purchase of "Portable Handheld X-Ray Machine" on Proprietary basis- **Inviting Comments thereon.**

The request received from Department of General Surgery, AIIMS Bathinda for the purchase of captioned item from **M/s New Path Solutions, Shed No.-2 Mawai Village, Faridabad, Haryana – 224117** authorized dealer of **M/s HDT Co. Ltd., 29, Uchi-ro, 880beon-gil, Buk-gu, Gwangju, Republic of Korea 61042** - Proprietary basis.

The Notice is being uploaded for general information of Aspirant Manufacturer/Dealer/Distributor to submit their objections/proposal, if any, on proprietorship of this item.

In case, the product of any Manufacturer/Authorized distributor/dealer conforms to the enclosed specifications, they may submit their proposal for the supply same Equipment along with the following: -

- Equipment brochure
- Point-by-Point compliance of the enclosed specifications, along with all relevant documentary evidence:

**The objection/proposal** should be sent in sealed cover to the **OIC, Procurement Cell, First Floor, C-Block, Admin. Building, AIIMS Bathinda, Mandi Dabwali Road, Bathinda - 151001** so as to reach on or before **17 Mar 2022 up to 03:00 PM.**, failing which it will be presumed that no any other vendor is interested to offer comments/protest and case will be decided accordingly on its **merit**.

The reference number should be super scribed on sealed envelope.

*Handwritten signature*  
09-03-2022

OIC, Procurement Cell

- Enclosed:
1. Technical Specifications
  2. PAC Certificate
  3. Dealer Authorization Letter

# 1. Technical Specifications

ALL INDIA INSTITUTE OF MEDICAL SCIENCES BATHINDA  
SHUBER BHAGNA MANDI, CARAVEL ROAD BATHINDA PUNJAB INDIA  
DEPARTMENT OF GENERAL SURGERY

No. AB/General Surgery/ 22

Dated 04/02/2022

Subject: Technical Specifications for required Portable handheld X Ray machine in the department of General Surgery

Portable handheld X Ray machine is required in the department for the smooth functioning

S. No.	Item	Specifications
1	Portable handheld XRay machine	<ul style="list-style-type: none"><li>1. Should be Handheld Portable Digital X-ray device Generator Source</li><li>2. It should have a Flat panel Digital Detector with instantaneous Image transfer and storage capabilities</li><li>3. It should be complete with Acquisition and Image processing Software with all tools necessary for Image manipulation / adjustment and capability to stitch multiple images to combine different scans</li><li>4. X ray source should be light weight not more than 2kg for easy and safe handling and should have provision for neck strap for safety of the equipment</li><li>5. System should be capable of taking X-Rays of maximum human anatomies with minimal radiation exposure to patient / operator / attendants without compromising Image quality of different anatomies</li><li>6. The Anode voltage &amp; Anode current of the solid state X-Ray tube should not be more than 60kV True DC &amp; 2.0mA to ensure minimum radiations and utmost patient, attendants and operators safety</li><li>7. The system should be capable of exposure time variable from 10 mS to 1.5 Sec. in increments of 10 mS to allow X-Ray imaging of all body weights and different anatomies.</li><li>8. The Focal spot size of the source should not exceed 0.5mm for high quality images.</li><li>9. The X-Ray source should have lead impregnated shielding on all sides other than the radiation aperture to safeguard operator from scattered X-rays.</li><li>10. The source must have guide beams to help ascertaining the X-Ray Image area.</li><li>11. The X-ray source should have inbuilt digital display to allow</li></ul>

different exposure settings and also show critical parameters, like battery charge, tube voltage etc.

12. The system should come with a large detector of at least 400 X 400 mm for taking image so full body parts.
13. The detector must be high resolution of at least 3000X3000pixels and less than 150microns/pixelpitch.
14. The detector should be capable of placement either in a bucket or directly under the patient if needed and must have load bearing capabilities of at least 150Kg at any single point.
15. The detector must be solid state, sealed, water resistant, dust resistant and with appropriate certifications for these parameters.
16. The detector must be capable of image transfer over WiFi to enable central acquisition workstation placement in ICU / camps while images are being taken of Patient across the room.
17. The acquisition console should be user friendly and based on windows OS.
18. Acquisition console software should have different settings for patient type(adult/paediatric/obese) & anatomy (anterior, posterior, oblique, lateral).
19. Acquisition software should be compatible with PACS/DICOM and also provide high quality jpeg / png images easily transmissible over platforms like WhatsApp / Emails for telemedicine.
20. The software should have settings for Automatic/Manual contrast and brightness optimization.
21. The Acquisition software Should be user friendly, DICOM / HL7 reference standard compatible for Telemedicine, Automatic Image area analysis, Grid less imaging, Automatic noise filter, Intelligent brightness control, Automatic / Manual contrast optimization, PACS or compatible support.
22. The portable X-Ray unit should have the provision of remote control for taking X-Ray Images without User handling of source / detector in accordance with As Low As Reasonably Achievable (ALARA) guidelines.
23. The complete system including X-Ray source, detector, acquisition station and routers should have capability of running without electricity on internal batteries which should be rechargeable using normal 220V-240VAC/6Amp sockets.
24. The complete setup should be able to take at least 80+ Images without the need of recharging. Any spare batteries needed to achieve this should be supplied along with the system.
25. Total weight of the whole X-Ray system including all components such as source, detector, acquisition station, router and batteries should be under 7 kg for easy handling and transport.
26. It should have a portable light weight Stand for X ray source for

*J. Bhargava*

*Anjali*

*[Signature]*

*[Signature]*

- field / ICU / Ward / Ambulance carriage.
- It should be supplied with compatible stand for fixing and manipulating Digital Detector.
- It should be supplied complete with a customized carrying case for all system components including source, detector, acquisition console by one person / operator.
- The system must be manufactured in CE certified facility and approved by the governing FDA of respective country as well as Indian regulatory (AFRB).

**Accessories Required with the above Mentioned Units:-**

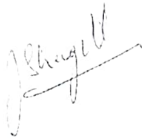
1. X Ray Generator stand
2. Detector stand

Department Purchase Committee (DPC) Certified that:

"We, members of the department committee are jointly and individually satisfied that the goods recommended for purchase are of the requisite specification and quality priced at the prevailing market rate and the supplier recommended is reliable and competent to supply the goods in question."

Yours Faithfully

Dept. of General Surgery  
AIIMS, Bathinda



2. PAC Certificate



HDT Co., Ltd.  
201, Jangjeon-ro, Seongnam-si, Gyeonggi-do  
Korea, Republic of Korea 410-713

Telephone: 21-2611

TEL: WITNESS VERIFICATION CENTER

We, HDT Co., Ltd. hereby certify that Medical Handheld portable X Ray Model MINE 2 with light weight X-ray source of 1.2 Kg, low Radiation levels of 60KVp voltage, 2mA current and selectable exposure time of 0.01-1.3 second is a proprietary product model manufactured by HDT Co., Ltd.

We also confirm that the said product MINE 2 with its published specification is manufactured solely by HDT Co., Ltd. with manufacturing establishments in South Korea and is not manufactured by any other manufacturer in the world.

Authorized Signatory

HDT CO., LTD.

WITNESS SIGNATURE

For: HDT Co., Ltd.