



# JORDAN ARMED FORCES

The DIRECTORATE OF ROYAL MEDICAL SERVICES  
THE INSTITUTE OF BIOMEDICAL TECHNOLOGY



Item:	Computed Radiology System (CR)	Qty: (3)
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### IMPORTANT NOTE:

Vendors are required to fill out the product details, compliance information, and brochure reference page number in the columns below

### TECHNICAL SPECIFICATIONS:

The unit must meet or exceed the requirements listed in the table below.

Product Details	
Name of Manufacturer	
Model/ catalogue number	
Country of Origin for the offered model	
Country where the manufacturer is based	
Delivery time	
Full warranty period	

	Minimum Requirements	Compliance (Y/N), Notes	Brochure Page No.
<b>A</b>	<b>Imaging plates (IP):</b>		
	1. Spatial Resolution of minimum of 10 Pixels / mm		
	2. IP size 35X43 cm , 24X30 cm- Quantity = 5 each.		
	3. IP size 15X30- Quantity = 2.		
	4. Robust cassette - IP holder.		
<b>B</b>	<b>Image reader system:</b>		
	1. Dual or more operation cassette feeder.		
	2. Small foot print area.		
	3. Status indicator with LCD message display.		
	4. Compact & Modular Design		
	5. Grayscale resolution minimum of 12bits.		



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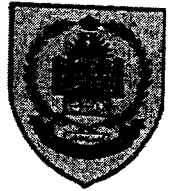


	Minimum Requirements	Compliance (Y/N), Notes	Brochure Page No.
	6. Minimum throughput of 50 IP / hour. (35X43cm)		
	7. Should have auto sensing power supply.		
	8. Should accept all General Radiology application.		
	9. Safety Standards, FDA approvals or CE Mark. (USA products should be FDA Approved).		
	10. Dedicated All in one cart system is a must for desktop readers - scanners, with Monitor, workstation and cassettes holder.		
<b>C</b>	<b>CR workstations (Hardware)</b>		
	1. High End PC with minimum of 500GB storage.		
	2. Should be branded (DELL, IBM, HP and COMPAQ).		
	3. Expandable (memory, Storage) when needed for future software upgrades.		
	4. Image storage should read more than 5000 images.		
	5. Workstation Memory size minimum of 4 GB.		
	6. Should include CD/DVD local burning functionality.		
	7. Should support minimum of 1.0 Gbps network communication speed on full duplex mode.		
<b>D</b>	<b>CR workstations (Software)</b>		
	1. Patient Identification.		
	2. Zoom and dynamic zoom, ROI.		
	3. Invert polarization and Manual image Collimation.		
	4. Multi - format image viewing.		
	5. Multi - format printing.		
	6. Advance enhancement of latitude and image noise reduction and contrast equalization.		
	7. Wide dynamic window leveling.		
	8. Advance image processing - latest version		
	9. Fully compatible to send studies to any DICOM 3.0 archive system.		



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	Minimum Requirements	Compliance (Y/N), Notes	Brochure Page No.
	10. DICOM Store feature should be included.		
	11. DICOM print feature should be included.		
	12. DICOM Worklist feature should be included.		
	13. Connectivity to any DICOM and HL7 HIS/RIS systems.		
	14. Ability of sorting patient exams per name, date or exam type.		
	15. Measurements and annotation to be included.		
	16. General DICOM Job management should be included.		
	17. Ability to burn CD/DVD of one patient study or group of patients through PC built-in CD/DVD optical drive.		
	18. System should be allows users to perform most system functions away from the main unit Network at least 3 remote operations panels without need for extra hardware or software		
<b>E</b>	<b>Dedicated UPS unit</b>		
	1. To supply system component s , which is applicable.		
	2. Minimum backup time of 5 minutes to initiate automated safe shutdown.		
	3. UPS batteries to be included as spare parts within F.O.C warranty period.		
<b>F</b>	<b>Medical grade review LCD Monitor</b>		
	1. Minimum of 19" antiglare flicker free LCD Color Monitor.		
	2. Minimum Resolution of 1 Mega Pixel as a review display.		
	3. Should be DICOM Native.		
	4. Multi - input (VGA , DVI , HDMI).		
	5. Touch Screen.		
<b>G</b>	<b>A list of standard accessories for the offered model (optional).</b>		
<b>H</b>	<b>Service training for one biomedical engineers/technicians as per item 21.1 of the special terms.</b>		



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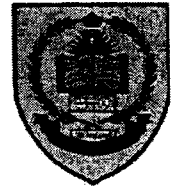


	Minimum Requirements	Compliance (Y/N) Notes	Brochure Page No.
I	Offer must include the price for a comprehensive service contract (including all replacement parts) valid for a period of (8) years starting at the end of the 24 month warranty period		



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### SPECIAL TERMS

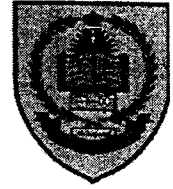
- *Offers not complying with any of the special terms or the technical specifications will be considered non-conforming with tender requirements.*
  - *Any vendor providing FORGED documents will be disqualified from the current tender and banned from participating in any future RMS tenders.*
1. *All equipment must be the most recently released model/version which is equal to or higher than the range of the specifications of the required system (low, mid or high) and equal to or higher than the level of technology and required options mentioned in the technical specifications.*
  2. *Required certificates:*
    - a. *For equipment of US origin, a copy of a certificate of FDA approval & the relevant 510K clearance for selling to US healthcare facilities for the offered model must be submitted with the technical offer.*
    - b. *For equipment of other origins, a copy of either a CE certificate with the relevant CE number (MDD)/TÜV/BSI/UL OR a certificate of FDA approval & the relevant 510K clearance for selling to US healthcare facilities for the offered model must be submitted with the technical offer.*
    - c. *Only for class I medical equipment, submission of a copy of Declaration of Conformity certificate (MDD) for the offered model shall be accepted.*
    - d. *In all of the above cases certificates must be formally endorsed by JFDA.*
  3. *Country of origin:*
    - a. *The country of origin of the main part (s) of the system must be one of the following:  
USA, Canada, Japan, UK, Sweden, Finland, Denmark, Switzerland, Belgium, Germany, France, Netherlands, Spain, Norway, Italy, Ireland, Austria, New Zealand, Czech republic and Australia.*

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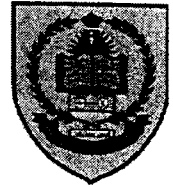


- b. *Accessories and consumables (as determined by the purchasing committee) may be manufactured in other countries and/or by different manufacturers.*
- c. *All offered items must be approved for sale in the same country of origin.*
- d. *Vendors must specify the origin of all offered items and accessories in the technical offer.*
- e. *Equipment manufactured by reputable companies based in any of the countries mentioned in (3.A) will be taken into consideration regardless of the country of origin only :*
  - I. *If they are approved for sale in the same country of origin (an original and officially endorsed free sale certificate from an authorised body must be included in the offer)*
  - II. *Or if they are approved for sale in at least three of the countries mentioned in (3.A), (an original and officially endorsed free-sale certificate from an authorised body in those countries must be included in the offer).*
4. *Bidders must submit their reservations/queries regarding tender specifications and/or special terms within the first third of the tender closing period starting from the tender announcement date. Reservations/queries submitted after the end of this period will be rejected.*
5. *Warranty:*
  - a. *Offers must include a full warranty including spare parts and labour for a period of a minimum of 24 months from the date of installation or 30 months from the date of receiving the items at the agreed location mentioned in the final order.*
  - b. *In the case where a delay in installation has occurred as a result of the supplier's dereliction and has exceeded a period of one month from the date of receiving the items, the approved warranty period will automatically be considered as 24 months from the date of installation.*
  - c. *If at any time during the warranty period the item becomes inoperative due to a technical fault the item must then be repaired by the supplier /local agent within a period of fourteen days from written notification, otherwise the supplier must replace the item with a new functioning one and will endure a penalty determined by the Royal*



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*Medical Services for each day of the downtime of the system. In case the item was replaced by a new one, the warranty period mentioned in term No. (5-A) above will start from the installation and commissioning date of the new item.*

6. *One set of operation manual(s) and one set of service manual(s) including schematics and a spare-part list must be delivered with each unit, CD/DVD is acceptable.  
For large tenders, a certain agreed percentage of manuals per item may be agreed upon.*
7. *Where applicable, pre-installation shall be the sole responsibility of the supplier. Pre-installation shall include removal of the old system, any civil work, electrical work or site modifications necessary to accommodate the new system according to manufacturers' specifications and safety standards in addition to the work required for bringing back the site to the same working condition as before installing the new system.*
8. *Power requirements: where applicable either single phase 220V, 50Hz or 3-phase 380V. Systems with external transformers are only considered conforming only if stated in the technical specifications.*
9. *Technical offers must include clear original technical brochures/catalogues for all offered items.*
10. *Offers must include fully detailed technical offers and compliance sheets as a soft copy (either Microsoft office or Microsoft excel format) in addition to a hard copy format, mentioning the exact model/catalogue number and country of origin of the offered item(s), full technical description/specifications and any accessories or options included in the offer.*
11. *Compliance sheets must be as per the tabular format of the technical specifications in the tender listing the required specification on one column and a Yes or NO response to each point in the adjacent column with reference to page and line numbers in the relevant technical brochure. Offers not complying with this term shall be rejected.*
12. *Accessories and consumables:*



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- I. *Any accessories and consumable items necessary to operate the offered system must be clearly identified and priced.*
- II. *Technical offers must include a priced list for accessories and consumables as a hard copy in addition to a soft copy format copy (either Microsoft office or Microsoft excel) with prices fixed for a period of five years from the date of installation and commissioning with a maximum annual increase of 2%, any essential item not listed will be considered free of charge.*
- III. *Accessories and consumables must be priced according to their delivery destination either to Queen Alia International Airport or to RMS Main Medical Stores.*
- IV. *Where applicable, a start-up kit of accessories and consumable items must be provided with each system on a free of charge basis.*

### 13. Spare Parts:

- I. *Technical offers must include a comprehensive and priced spare parts list as a hard copy in addition to a soft copy format copy (either Microsoft office or Microsoft excel) valid for a minimum period of five years with a maximum annual increase of 2%, commencing at the end date of the warranty period, any essential item not listed will be considered free of charge.*
- II. *Spare parts must be priced according to their delivery destination either to Queen Alia International Airport or to RMS Main Medical Stores.*

14. *Spare parts, consumables and accessories availability must be guaranteed for a minimum period of ten years starting from date of installation and commissioning.*

### 15. Tender awards:

- I. *For the final list of offers having a chance of winning the award, the awarding process will be based on the accumulative value of both the offered item and its' running cost (total cost of ownership) over a period of seven years from the date of installation and commissioning. Only offers with the lowest total cost of ownership over a period of seven years from the date of installation and commissioning shall qualify for the award.*
- II. *Running cost includes the value of consumables, accessories needed to operate the system over the same period as well as the cost of any service contract (where applicable).*





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**16. For PC/Laptop based systems:**

- a- *Complete restoration medium CD/DVD/etc. of the operating system and the application software must be supplied.*
- b. *Where locally supplied computers or laptops are offered, only computers / laptops from Apple, hp/Compaq, Lenovo, Dell, Fujitsu & Toshiba will be accepted, offered models must be the latest available version upon delivery.*
- c. *Where locally supplied printers are offered only the following types and brands are accepted:*  
*HP, SAMSUNG, OKI, CANON, EPSON*

**17. Pricing must include services of sale, shipment, transportation, delivery from port to site or to Main Medical Stores, installation, pre-installation (if needed), training, commissioning, warranty and bringing the equipment into service.**

**18. Custom clearance of goods shall be the responsibility of the Jordanian Armed Forces (JAF), however, suppliers shall bear all costs incurred by handling charges and any demurrage charges or extra expenses incurred by the port's corporation (including expenses caused by delay in presenting the necessary shipment documents for either clearing or transporting the goods to the required location mentioned in the final order, delivery note issuing charges, unloading charges, local shipping charges etc.). The supplier is also responsible for providing of all relevant shipping documents, together with the delivery order(s).**

**19. DRMS has the right to increase or decrease the awarded quantities by a percentage not exceeding 30% after the final order notification with the same prices, terms and conditions of the original contract upon DRMS request and approval of the awarded party.**

**20. The supplier must furnish DRMS with a guarantee stamped and legalized by the Notary Public equals to (115%) of the total value of the awarded equipment valid for twelve months from the date of final acceptance of the equipment by DRMS.**

**21. Training:**

**21.1 For items where service training courses for the offered system are usually conducted abroad, offers must include a certified service training program at a reputable center abroad recognized by the manufacturer for at least one biomedical engineer or**

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*biomedical technician; all costs inclusive, air tickets, , boarding, commuting, accommodation (minimum 3 star hotel on full board basis) and any extra costs.*

*21.2 For items where user training courses for the offered item are usually conducted abroad, offers must include a certified operator training program at a reputable center abroad recognized by the manufacturer for at least one operator; all costs inclusive, air tickets, , boarding, commuting, accommodation (minimum 3 star hotel on full board basis) and any extra costs.*

*21.3 The period of the training courses must be according to the manufacturer's program excluding traveling days and must be stated clearly in the technical offer.*

*21.4 Training Programs must conform to the following standards:*

- User training must comprise understanding and use of operation manual(s), correct and safe operation of the equipment, as well as user preventive maintenance and calibration.*
- Service training must comprise: theory, understanding and use of service manual(s), calibration, preventive maintenance procedure, and practical troubleshooting and repair exercises, and must be conducted by professional instructors employed or authorized by the system manufacturer.*
- Service training must be conducted on a system of identical make, model, and configuration to that purchased by DRMS, and designated by the manufacturer or the local agent for training purposes.*
- Certificates must be endorsed and officially sealed by the system manufacturer, legally empowering trainees to engage in user and service activities according to operation and service manual(s).*
- Where applicable, offers must include an on-site user and service training.*