## Specifications of Digital Radiography System -Version III

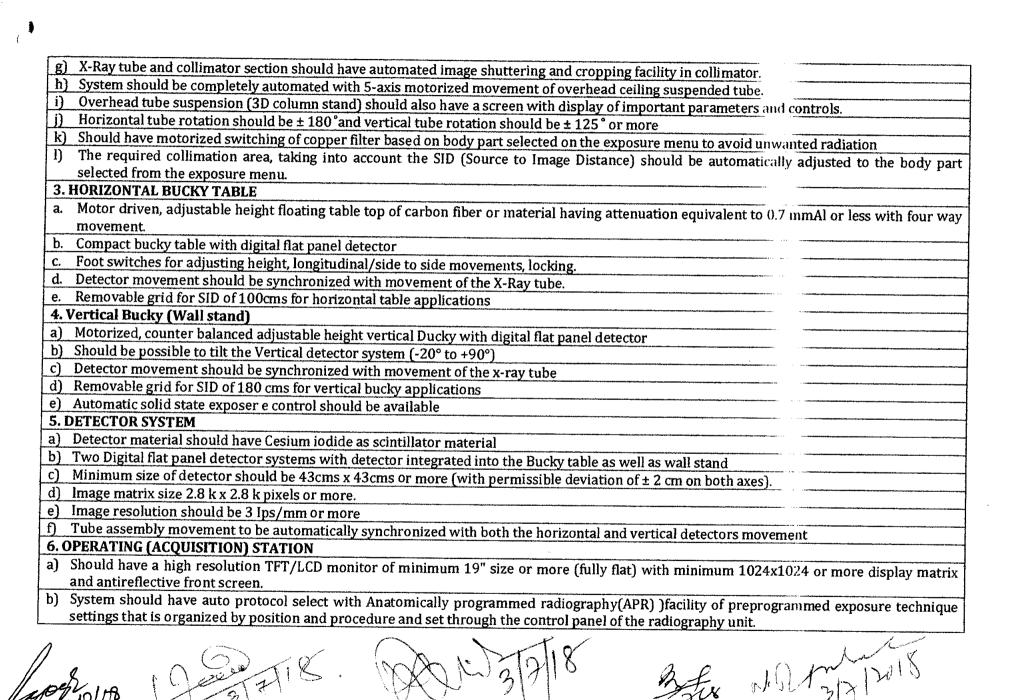
Technical Specification
High powered fully digital radiography system for the Department of Physical Medicine & Rehabilitation, Regional Institute of Medical Science Imphal. The Unit should be completely integrated i.e., integrated X-ray generator, Flat panel Detector and image acquisition control console.
Please note:
i. Equipment Datasheet submitted should be easily readable without any misprints or fabrication.
ii. Simply giving page number reference of the submitted technical quotation alone will not be considered for evaluation of technical compliance.
unless tender specification is also be validated by furnishing, and giving references to the Product Datasheets, Brochures, and or Service Operational manuals.  It should have following specifications:
1. GENERATOR
a. 800 mA unit or more with microprocessor controlled high frequency X-ray generator with power output of 80 KW or more. Higher mA unit preferred.
b. The exposure range should be 40-150KV
c. The minimum exposure time should be 1ms or less.
d. There should be provision for solid state automatic exposure control for both table and stand applications.
e. All generator parameter controls should be available on acquisition console.
2. X-RAY TUBE
a) Should be ceiling suspended with preferably touch screen display
b) Should have dual focus tube
c) Small focal spot should be 0.6 or less and large focal spot should be 1.25 or less
d) Ceiling suspended tube should have standard motorized movement across i. Vertical axis
ii. transverse axis
iii. longitudinal axis
iv. vertical axis rotation
v. and horizontal axis rotation
allowing auto positioning basis selection of anatomical program from control workstation
e) Facility size programming should be possible.
f) Anode heat storage capacity should be a minimum of 300 KHU or more (higher KHU like 600 KHU would be preferred)

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c) System should have standard DICOM Services like MWL, MPPS, Print, and Storage. d) Should be provided with latest generation computing hardware 7. IMAGE VIEWING, POST-PROCESSING AND REPORTING STATION AND DOCUMENTATION a) 2MP or better dual head medical grade FDA approved monitor of reputed make need to be supplied b) Workstation computing hardware should be of latest generations with at least 16GB RAM, Intel i7 Processor, 1 TB HDD and 2MP medical display. c) Image processing functions like rotate, mirroring, zoom, move, and windowing filter should be possible. d) There should be facility for measurements. e) Multi-format printing should be possible with user selectable options. f) It should be possible to create alphabetical, date wise and exam based, work list g) Work list should be auto refreshing 8. IMAGE STORAGE AND TRANSMISSION a) Hard disc storage capacity should be of 4,000 or more images b) The systems should support storage of images on compact discs and DVD c) The system should be DICOM 3.0 (or higher version) ready (like send, receive, print, record on CD/DVD, acknowledge etc.) for connectivity to any network, computer/PC etc. in DICOM format. d) Easy integration and networking should be possible with any other existing/future networking including other modalities, HIS and RIS and PACS. Vendor will connect it to existing/future network without extra cost. 9. ACCESSORIES a) Dry chemistry Laser Camera capable of printing radiography images with 500 DPI or more resolution and camera should accept all size films up to 14"x17" size (three film size trays should be active). b) Suitable UPS of reputed make for the computer with 30 minute backup c) Lead glass of size 100x 150 cm or more for console room. d) Vendor to install wireless mike system for calling patients who are waiting outside e) Five light weight 'zero lead' aprons-with hangers. f) A lead screen on wheels with two panels. 10. WARRANTY/AFTER SALE SERVICE a. 3 (three) year comprehensive onsite warranty 11. TURNKEYS a. Construction of a suitable room for installation as per the lay out plan and specifications of AERB b. Installation of the machine and make it functional

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12. ESSENTIAL CERTIFICATION	
a. Radiation safety certificate offered model must have a valid type approval or NOC from AERB.	
b. Quality certificate:	
13. Important instructions to supplier	
The supplier must be the Original Equipment Manufacturer	
Turnkey installation is to be completed within 4(four) months of the placement of order.	
Upgradable machine/system is desirable.	

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Imphal/date 03/07/2018