


Specifications for Computerised Radiography System (Digital X-ray Imaging)
(Sanctioned under GM power in M&P for year 2016-17 for DRH /BPL)

S.N	Criteria	Description
1.	Major Criteria	<p><u>1.1 Image Recording System :</u></p> <ul style="list-style-type: none"> • Cassettes : 14X17, 10x12 & 08x10 inches (each 02 numbers) • Image Plates : 14x17, 10x12 & 8x10 inches (each 02 numbers). <p><u>1.2 Image Reading & Processing:</u></p> <ul style="list-style-type: none"> • Loading capacity more than 100 per cartridge. • Processing capacity more than 50 plates per hour with upgradable cassette scan speed. Should be able to process cassettes of size 14x17, 10x12, 8x10, 18x24 & 24x30 inches. • DICOM compatible with network connectivity. Facility of PACS connection, annotation, storage , transfer & Preview. • Pixel 508 dpi color display daylight setting dry image recording film SDS. Should have high resolution of equal to or less than 100 microns with depth acquisition resolution minimum image preview time , Automatic Compensation & normalization of variation of exposure conditions with adjustment of density , contrast & edge enhancement for clear display. <p><u>1.3 Work Station with console</u></p> <ul style="list-style-type: none"> • Sophisticated , dedicated digital image processing software to process image data • High resolution LED monitor 17” to 19” with keyboard & mouse. • Edge enhancement, latitude reduction, image noise reduction , gray scale saturation should be provided in console of workstation. • Capable of recognizing exposure data, grading process, spatial frequency processing, Dynamic range control , window level adjustments, zooming, image cropping, rotation, flexible noise control, Grid pattern removal & artifact suppression. • Able to analyse and measure angle, ratio & distance . • Multimodality processing software with multimedia connectivity, USG connectivity & multiimage printing in same plate. <p>Should have option of additional viewing connection to radiologist chamber.</p> <p><u>1.4 Dry Laser Camera /Imager:</u></p> <ul style="list-style-type: none"> • Dry Laser Image Printing Technology with outstanding performance, remarkably efficient superqualityprinting resolution 500 DPI or more, pixel depth 14 bits or more and print speed more than 50 films per hour. • Both DICOM & non DICOM competent with network connectivity. • Should be able to support film sizes 14x17, 10x12 & 8X10 inches. • Should have two online tray capable of changing any film at any time. • System should be CE/FDA approved . • The software, digitizer & Printer should be from same manufacturer. • Online UPS 3KVA with power backup of 15 minutes at least,

2	Minor Criteria	2.1 Personal Computer with 17 inch LCD monitor loaded with latest windows. 2.2 Laser Printer.
3	Concomitant Accessories	• Ethernet 10 BASE-T/100BASE-T/1000 BASE-T
6	Warranty	Two years (24 months) from the date of installation.
7	CMC	07 (seven) years from date of expiry of warranty.
8	Special Requirement	Full training regarding system application & its operation to Radiographer for 2 working days.


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CMS/BPL