

TECHNICAL SPECIFICATIONS

Important Instructions for Technical Specifications

1. The bidders shall NOT write the word “As per specifications”, “specifications compliance” or any other related terms.
2. The bidder shall prepare the bid specifications in an **annotated for ease of comparison & evaluation**. The specifications will also be supported with **brochures of quoted equipment**, reference **picture/design / website link of the product**. The relevant brochures having complete specification must be attached with the technical bid otherwise bids shall be declared as non-responsive

2	DIAGNOSTIC DEPARTMENT FOR 200 INDOOR & 1000 OPD PATIENTS		
D	RADIODIAGNOSIS		
1	1000mA DR X-ray system		<p><u>Ceiling Suspended Digital Radiographic Unit 1000 mA with 2 Flat Panel Detector</u></p> <p><u>X-Ray Generator:</u></p> <ul style="list-style-type: none"> • 80kW HV Generator or more - MANDATORY • Maximum Inverter Frequency • Main Voltage must 3 phase 380V • Max tube Voltage 150KV or better • Radiographic mA range 10-800 mA - MANDATORY • Exposure Time: 1ms~ 10s • mAs product 0.1 mAs to 1000mAs or better • AEC • APR function, more than 600 to 1000 As per OEM positions • Fault Detection and Diagnosis. <p><u>X-Ray Tube</u></p> <ul style="list-style-type: none"> • Focal Spot 0.6mm/1.2mm or better • Anode heat storage capacity 300 KHU or better • Should have tube overload protection <p><u>Flat Panel Detector 2 pcs</u></p> <ul style="list-style-type: none"> • Active Image size up to (17" x 17") or better • Should have 3000 x 3000 pixels or better • Should have CSI as Scintillating • Pixel depth should be 16 bit or more • Pixel size: 130 um or better (smaller the better) - MANDATORY • Whole image display should take 8 second or lesser • DQE:≥70% • The Flat panel detectors must be dust and waterproof <p><u>DR Radiography Ceiling Structure</u></p> <ul style="list-style-type: none"> • Multi-function DR bucky stand with the ceiling suspension system • Mechanical Structure: Ceiling Suspended X-ray Tube + Chest Bucky • Movement: Fully motorized / hydraulic; horizontal moving can be manually controlled; Fast • shifting to programmed positions • Longitudinal movement of suspension unit: ≥4200mm, manual/ motorized • Transverse movement of suspension unit: ≥ 2000mm, manual/ motorized: • Vertical movement of suspension unit: ≥ 1700mm, motorized • X-ray tube and control box rotation Horizontal axis (left-right): -150°~ +150° , manual/

		<ul style="list-style-type: none"> motorized • X-ray tube rotation around vertical axis : $\pm 180^\circ$ • Detector rotation, $0^\circ - 90^\circ$, motorized • Projection modes: horizontal, vertical, oblique, lateral, etc. • The DR system shall be integrated DR. <p><u>Diagnostic Bucky Table</u></p> <ul style="list-style-type: none"> • Tabletop Dimensions: 2200 mm \times 820mm • Elevator type; 6-way movement of the table • Table Movement (Motorized / Hydraulic): Transverse ± 120, Longitudinal 1000 mm • Table elevation range: 400 – 900 mm, motorized (SID hold available) • Auto-tracking function between X-ray tube and table bucky • SID range (vertical): 600mm~1000mm • Electromagnetic brake, • Table Top Attenuation equivalent $< 1.2\text{mmAl}$, Weight Capacity ≥ 150 kg) • Grid: 457mm\times457mm; Density: 40L/cm; Ratio:$\geq 8:1$; $f_0: \geq 100\text{cm}$; Oscillating grid <p><u>Bucky Chest Stand</u></p> <ul style="list-style-type: none"> • Oscillating grid type; detachable • Grid ratio: 8:1 or more • Grid density: 40 lp/cm or better • Radiographic unit movement: 1000 mm or better • Counterweight balanced and electromagnetic lock <p><u>Collimator</u></p> <ul style="list-style-type: none"> • Motorized Collimator • Auto Tracking and auto collimation <p><u>Imaging System</u></p> <ul style="list-style-type: none"> • CPU: Intel Core 2 Duo(Core 2 Duo) $\geq 3.7\text{GHz}$ • Memory: 4GB ; Hard Disk: $\geq 500\text{GB}$ CD-ROM: DVD Burning • System Interface: USB, Standard RS232, LPT, 100MB network Interface, DVI/VGA Display Output Interface • Monitor: 23" LCD Monitor (color); Resolution: 1920\times1080 • Monitor: 20.1" Medical Mono LCD Monitor; • TFT Mono LCD Monitor, Anti-glare, Hard coating • Brightness (Max.) 700 cd/m2; Contrast: 1000: 1 • Picture angle: Level 170°, Vertical 170° (CR > 10); Pixel pitch: 0.255mm • Resolution: 1600\times1200; Grey Scale: 4096 • OS: Windows 7 or later • Should have post-processing options of Zoom, Image Invert, Contrast, Brightness, Measurements • Should have APR programs • Should have soft wares or hard wares to harmonize contrast and enhance image details. • Should have the capability to integrate with the hospital HIS • DICOM 3.0 • Compatible 2 tray printer with UPS <p><u>System Compatibility</u></p> <ul style="list-style-type: none"> • The DR system must have the same OEM. The main component of the machines must be from the same manufacturer i.e., tube, generator, workstation, FPD. – MANDATORY • Online UPS capable to the system.
2	DIGITAL FLUOROSCOPY SYSTEM	<p><u>DIGITAL FLUOROSCOPY SYSTEM</u></p> <p>Should be a digital Radiography system with flat panel detector and fluoroscopy system, Capable of taking digital images in horizontal, vertical positions of all skeletal body including spine and chest and should be capable for various fluoroscopic applications</p> <p><u>Generator</u></p> <ol style="list-style-type: none"> 1. Generator should be of high frequency inverter technology for constant output 2. Should have at least 80KW power or better 3. The KV range from 40 to 150 KV or better 4. Should have 1000mA at 80 KV or better.

		<p>5. Should have an automatic exposure control device</p> <p>6. Should have anatomical programming for radiography</p> <p>7. Should have over load protection feature</p> <p>8. Should have a digital display for KV and mAs</p> <p>9. Should have pulsed fluoroscopy</p> <p>10. Should have a minimum exposure time of at least 1ms or better</p> <p><u>X-Ray tube and collimator:</u></p> <p>1. Should be a high speed rotating anode dual focus tube compatible with the generator</p> <p>2. Focal spot sizes shall be as per OEM</p> <p>3. Should have a multi leaf collimator having halogen light source with auto shut provision for the light, auto collimation and remote controlled.</p> <p>4. Should have over load protection</p> <p>5. Should have an anode heat capacity of 800 KHU or more - MANDATORY</p> <p><u>X-Ray Table with detector</u></p> <p>1. Should be a carbon fibre/equivalent motorized / hydraulic movement floating table having a weight carrying capacity of 200kgs or more.</p> <p>2. It should have automatic exposure control with at least 3 fields</p> <p>3. Vertical tilt +90 -90 / equivalent or better - MANDATORY</p> <p>4. 6 way movements shall be available either in the table or in combination with the imaging system</p> <p>5. Should have integrated bucky unit for flat panel general radiography and fluoroscopy</p> <p>6. Variable SID as per recommended by OEM according to different scan type.</p> <p>7. Possibility to control the table movement from inside the control room.</p> <p>8. Compression cone: 80 N or more</p> <p>9. Head side hand grips shall be available</p> <p><u>Digital detector</u></p> <p>1. The detector should be a flat panel detector of latest direct digital technology / Amorphous silicon with Cesium Iodide Scintillator.</p> <p>2. The size of the detector should be 42x42 or more</p> <p>3. Should have spatial resolution of 3.4 lines pair / millimeter or better</p> <p>4. Detector Quantum Efficiency (DQE) should be 60% or more.</p> <p>5. The active matrix size should be 2.8k x2.8k or more</p> <p>6. Pixel Size: 150 um or better</p> <p>7. 14 bits and 16 bits both modes shall be available</p> <p><u>Display and other features</u></p> <p>1. One System monitor: 21" or more Display: 1600 × 1200 pixels or more (color/monochrome Playback images, processed images, multi-images, etc.)</p> <p>2. 2 Nos. of Live monitors: 19" or more Display: 1280 × 1024 pixels or more, monochrome Digital fluoroscopic images, fluorographic images, playback images, etc.</p> <p>Note: Both should be provided by manufacturer. No local monitors will be accepted)</p> <p><u>Image processing/equivalent processing</u></p> <ul style="list-style-type: none"> · Recursive filter with motion detection · Last image hold · Image flipping · Spatial filter (edge enhancement, smoothing) · DCF <p><u>Recording</u></p> <p>Fluoroscopic image and last-image-hold image can be stored to hard disk.</p> <p><u>Fluoroscopic image acquisition</u></p>
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3	DR System 500mA		<p><u>Ceiling Suspension Digital Radiographic Unit 500 mA with 2 Flat Panel Detector</u></p> <p><u>X-Ray Generator:</u></p> <ul style="list-style-type: none"> • 50kW HV Generator or more • Maximum Inverter Frequency 200KHZ or better • Main Voltage must 3 phase 380V • Max tube Voltage 100KV or better • Radiographic mA range 10-500 mA ☑ Exposure Time: 1ms~ 10s • mAs product 0.1 mAs to 500mAs or better • AEC • APR function, more than 600 positions • Fault Detection and Diagnosis. <p><u>X-Ray Tube</u></p> <ul style="list-style-type: none"> • Focal Spot 0.6mm/1.2mm or better • Anode heat storage capacity 300 KHU or better • Should have tube overload protection <p><u>Flat Panel Detector 2 pcs</u></p> <ul style="list-style-type: none"> • Active Image size up to (17" x 17") or better • Should have 3200 x 3200 pixels or better • Should have CSI as Scintillating • Pixel depth should be 16 bit or more • Pixel size: 130 um or better (smaller the better) • Whole image display should take 8 second or lesser • DQE:≥70% • The Flat panel detectors must be dust and waterproof <p><u>DR Radiography Ceiling Structure</u></p> <ul style="list-style-type: none"> • Multi-function DR bucky stand with the ceiling suspension system • Mechanical Structure: Ceiling Suspended X-ray Tube + Chest Bucky • Movement: Fully motorized / hydraulic; horizontal moving can be manually controlled; Fast • shifting to programmed positions • Longitudinal movement of suspension unit: ≥4200mm, manual/ motorized • Transverse movement of suspension unit: ≥ 2000mm, manual/ motorized: • Vertical movement of suspension unit: ≥ 1700mm, motorized • X-ray tube and control box rotation Horizontal axis (left-right): -150°~ +150° , manual/ motorized • X-ray tube rotation around vertical axis : ±180° • Detector rotation, 0°- 90°, motorized • Projection modes: horizontal, vertical, oblique, lateral, etc. • The DR system shall be integrated DR. <p><u>Diagnostic Bucky Table</u></p> <ul style="list-style-type: none"> • Tabletop Dimensions: 2200 mm × 820mm • Elevator type; 6-way movement of the table • Table Movement (Motorized / Hydraulic): Transverse +-120, Longitudinal 1000 mm • Table elevation range: 400 – 900 mm, motorized (SID hold available) • Auto-tracking function between X-ray tube and table bucky • SID range (vertical): 600mm~ 1000mm • Electromagnetic brake, • Table Top Attenuation equivalent< 1.2mmAl, Weight Capacity ≥150 kg) • Grid: 457mm×457mm; Density: 40L/cm; Ratio:≥ 8:1; f0: ≥100cm; Oscillating grid

		<p><u>Bucky Chest Stand</u></p> <ul style="list-style-type: none"> • Oscillating grid type; detachable • Grid ratio: 8:1 or more • Grid density: 40 lp/cm or better • Radiographic unit movement: 1000 mm or better • Counterweight balanced and electromagnetic lock <p><u>Collimator</u></p> <ul style="list-style-type: none"> • Motorized Collimator • Auto collimation and auto tracking <p><u>Imaging System</u></p> <ul style="list-style-type: none"> • CPU: Intel Core 2 Duo(Core 2 Duo) ≥3.7GHz • Memory: 4GB ; Hard Disk: ≥500GB CD-ROM: DVD Burning • System Interface: USB, Standard RS232, LPT, 100MB network Interface, DVI/VGA Display Output Interface • Monitor:23" LCD Monitor (color); Resolution:1920×1080 • Monitor: 20.1" Medical Mono LCD Monitor; • TFT Mono LCD Monitor, Anti-glare, Hard coating • Brightness (Max.)700 cd/m²; Contrast:1000: 1 • Picture angle: Level 170°, Vertical 170° (CR > 10); Pixel pitch: 0.255mm • Resolution:1600×1200; Grey Scale:4096 • OS: Windows 7 or later • Should have post-processing options of Zoom, Image Invert, Contrast, Brightness, Measurements • Should have APR programs • Should have soft wares or hard wares to harmonize contrast and enhance image details. • Should have the capability to integrate with the hospital HIS • DICOM 3.0 <p><u>System Compatibility</u></p> <ul style="list-style-type: none"> • The DR system must have the same OEM. The main component of the machines must be from the same manufacturer i.e., tube, generator, workstation, FPD. – MANDATORY • Online UPS capable to the system.
4	Digital Mobile Radiographic unit	<p><u>Mobile Radiographic System</u></p> <ol style="list-style-type: none"> 1. <u>Generator Output Power</u> Generator Power: 30 KW or more– MANDATORY kVp range : 40 – 150 or better mA range: 10 – 500 mA or better – MANDATORY Exposure time range: 1 msec to 10 sec or better mAs range: 0.1 to 500 mAs or better Voltage 150 kV or better 2. <u>Tube</u> Focal Spot: Small 0.6 / Large: 1.2 mm or better Anode heat capacity: 300 KHU or better 3. <u>Grids</u> Compatible should be included 4. <u>Console Screen:</u> 17" or more Touch Screen 5. <u>Max. speed / slope</u> Nor more than 5 km/h / 5° (8.8%) 6. <u>Anti-collision system</u>

		<p>Front bumpers for collision protection</p> <p>7. Batteries: 2 independent batteries for driving and imaging Driving: Lead Acid batteries Imaging: Lead Crystal batteries for better imaging Battery performance: 137.500 mAs @ 80 kVp or better</p> <p>8. Collimator: Manual collimator</p> <p>9. Detectors: CSI detectors Housing Material: Carbon Monocoque Design Load capacity: 300 kg or better DQE: 60 % standard Pixel Size: 180 microns or less Cycle time: six seconds or less 14" x 17"</p> <p>10. Accessories: i. Infrared Remote Control for exposure and Collimator light ii. Dose Area Product (DAP) meter iii. Manual Collimator with double laser and manual Filters</p> <p>11. Drv Imager: i. Multi port, multiple format with resolution of 600 DPI or more ii. DICOM ready and online iii. Two sized film trays active</p>
5	Color Doppler	<p>HIGH END FULLY DIGITAL BEAM FORMER COLOR DOPPLER SYSTEM HAVING 2D/M-MODE AND DOPPLER FACILITIES, (PW, HPRF & POWER DOPPLER) AND UPGRADABLE TO CW.</p> <p>1) SYSTEM COMPLETE WITH FOLLOWING FACILITIES:</p> <ul style="list-style-type: none"> - HIGH-DEFINITION 21" OR MORE LCD/LED MONITOR – MANDATORY WITH FULL HD RESOLUTION 1920 x 1080. - 4 or more ACTIVE TRANSDUCER CONNECTOR FOR TRANSTHORACIC PROBES. - 1000GB OR MORE SOLID STATE DRIVE TO BE BUILT-IN TO THE SYSTEM. - DICOM COMPATIBILITY. - TOUCH COMMAND SCREEN CONTROL AT LEAST 10-INCHES COLOR LCD/TFT. <p>2) STANDARD PROBES:</p> <ul style="list-style-type: none"> - 2 – 6 MHz MULTI-FREQUENCY CONVEX PROBE FOR B/M/CDI/PW. - 4 – 11 MHz MULTI-FREQUENCY LINEAR PROBE FOR B/M/CDI/PW. 5 to 11 MHz micro convex probe <p>3) VIEWING DEPTH: 32 CM OR MORE.</p> <p>4) BUILT IN CINE MEMORY : 900MB OR MORE.</p> <p>5) SYSTEM DYNAMIC RANGE: 300DB.</p> <p>6) TISSUE DOPPLER IMAGING.</p> <p>7) POWER DOPPLER.</p> <p>8) TISSUE HARMONIC IMAGING.</p> <p>9) DIFFERENTIAL THI / HD-THI /CODED HARMONIC IMAGING / CPI FOR SPATIAL RESOLUTION AND BETTER PENETRATION.</p> <p>10) ADVANCED DYNAMIC FLOW / E-FLOW / B-FLOW COLOR / MICRO V / HD FLOW.</p> <p>11) AUTO IMAGE OPTIMIZATION/QUICK SCAN IMAGING FOR AUTOMATIC IMAGE OPTIMIZATION BY USING ONE TOUCH OPERATION.</p> <p>12) SONO CT/COMPOUND/APLIURE TO REDUCES ULTRASOUND WAVE</p>

		<p style="text-align: center;">INTERFERENCE WITHIN TISSUES, WHICH APPEAR AS SPECKLE PATTERNS.</p> <p>13) APLIPURE+ / XVIEW+ / SPECKLE REDUCTION IMAGING TO REDUCE SPECKLE NOISE AND ACOUSTIC SHADOWS.</p> <p>14) ADAPTIVE SUPPRESSION IMAGING / CROSS BEAM/XFLOW/ PRECISION IMAGING.</p> <p>15) NEEDLE RECOGNITION / BIOPSY ENHANCEMENT AUTO MODE FOR NEEDLE VISUALIZATION.</p> <p>Accessories :</p> <p>A. B/W THERMAL PRINTER.</p> <p>B. COMPATIBLE UPS.</p> <p>OPTIONALS (mandatory to quote):</p> <ul style="list-style-type: none"> - 4 – 11 MHz MULTI-FREQUENCY ENDOCAVITY PROBE FOR B/M/CDI/PW. - 3D IMAGING WITH FREE HAND WITHOUT 4D TRANSDUCER. - CLOUD SERVICE FOR SHARING CLINICAL IMAGES (FROM ORIGINAL EQUIPMENT MANUFACTURE OF THE MAIN SYSTEM).
6	Ultra sound unit with Linear Probe	<p>High Resolution digital portable color Doppler ultrasound diagnostic equipment with fully digital beam former having facility of upgradability and capable of applications like abdominal, Obs/Gynae, Small Parts, Urology, Vascular Studies</p> <ul style="list-style-type: none"> • Main Ultrasound Portable unit with 15" or More LCD Touch Display with resolution 1024*768 • 2.0 to 5.0 MHz or better Triple frequency convex probe with THI frequencies • 5.0 – 10 MHz or better Multi-frequency Linear Probe for Small Parts • Scan Mode: B, B/B, B/M, and M-Mode, CDI, PW • B-Mode: Scan Depth: 35 cm or More • Focusing Point: Adjustable • Gain Adjustment: Gain: STC: 8-Steps or More • Display: Quad/Dual Display, Duplex B/M Scan • Scanning Mode: B+Color, B+PW, Power, B+Color+PW, B/M • Additional Software like Trapezoid Imaging, One Touch auto optimization, Speckle Reduction Imaging, Tissue Harmonic Imaging as standard • Wide Range of measurement functions with Calipers, distance, area (trace, ellipse), fetal growth measurement package with different method for Ob/Gynae • Built-in Cine Loop: 250 Frames or more • Frame Rate: 400 FPS or More • Data Management System with 250GB or More HDD built-in system to store and retrieve the images along with data output through USB <p>Accessories:</p> <ul style="list-style-type: none"> • B/W Thermal Printer • Built-in Battery for backup purpose having backup time more than 90 minutes or better • Imported Trolley: to place and fix the machine in proper condition
7	Echo Ultrasound unit	<p>Fully digital beam former with integrated data management system having 1TB hard disk drive for still and cine clips storage.</p> <p>Modes: 2d/m-mode, doppler, PW, CW & HPRF doppler, color flow imaging System capability 1.5 – 22MHz or more Tissue harmonic imaging, Viewing depth: 35 cms or better. Frame rate: 2000FPS or better – MANDATORY Built-in cine loop: 2000 frames/ 300mb or better. Real time freeze & image magnification ability better than 20x pre & post processing Sweep speed: slow, medium, fast 12" or better touch command screen for easy operation of the system. System dynamic range: 250dB or better</p>

		<p>Doppler mode specifications: On line 4-ports for trans-thoracic probes. Doppler beam steering and bi-directional stereo audio. Color doppler Colorized spectrum display. Tissue harmonic imaging with two frequencies 2d image with color flow Power doppler Auto image optimization/quick scan for single button optimization of all scanning parameters including stc overall gain and doppler spectrum. Compound scanning using frequency as well as spatial compounding. Trapezoid imaging for linear probes.</p> <p>Measurement package:</p> <p>To provide comprehensive software package for measurement of distance circumference, area, time, depth etc. And separate software for, cardiovascular including venous doppler study, IMT (intima medial thickness)</p> <p>System completes with following facilities and accessories:</p> <p>21-inches or better display (lcd/tft). – MANDATORY</p> <p>Standard probes:</p> <p>2-5 MHz or more multi-frequency sector probe for adult. (Model and make must be mentioned) 4 to 10MHZ Probe Neonates 3-7.0 MHz sector probe for peads. (Model and make must be mentioned)</p> <p>Built-in battery/ separate compatible imported ups (minimum backup time > 10minutes) B/w thermal printer. (model/make must be mentioned)</p>
8	C ARM	<p>Description of Function: A Versatile, compact and true counterbalanced C-arm unit should allow UN obstructed Positioning and enhanced ease of operation in OT for surgical interventions.</p> <p>Technical Specifications:</p> <p>1. X-RAY GENERATOR Type: High Frequency Generator Inverter Output Power: 5.0kW – MANDATORY</p> <p>FLUOROSCOPY</p> <p>-CONTINUOUS MODE: 0.5 – 05MA -PLUSE MODE: 0.5 – 05MA -BOOST MODE: 20MA</p> <p>RADIOGRAPHY MODE</p> <p>-KV RANGE: 40 – 120KV -MA RANGE: 20 – 100MA -MAS RANGE: 0.4 – 100MAS</p> <p>X-RAY TUBE X-RAY TUBE TYPE: STATIONARY ANODE MAX KV: 120kV FOCAL SPOT SMALL: 0.4MM / LARGE 1.4MM TARGET ANGLE: 15° ANODE HEAT CAPACITY: 30KJ/40KHU</p> <p>COLLIMATOR TYPE: Motorized Opening Closing: 4 Way Rotation: 360° Iris: Motorized</p> <p>FLAT-PANEL DETECTOR (1) Field of View 9" inch or better mandatory</p>

			<p>(2) Image Sensor TFT: a-Si (Amorphous Silicon)</p> <p>(3) X-ray Scintillator Type CsI: TI (Thallium doped Cesium Iodide)</p> <p>(4) Pixel Pitch 0.145mm</p> <p>(5) Spatial Resolution Minimum 3.4lp/mm</p> <p>(6) Maximum Frame rate Pixel 1024x1024: 30fps</p> <p>DIGITAL IMAGING SYSTEM(DIS)</p> <p>(1) AIS</p> <p>(2) PC Spec Intel Core i3-2130(3.4GHz) or Higher Windows7 or Higher 4GB DDR3 SDRAM (1600MHz) or Higher 500GByte Hard-Drive or higher</p> <p>REPRODUCIBILITY</p> <p>(1) Coefficient of Variation kV<0.005, Time<0.005, <mAs<0.001</p> <p>ACCURACY kV<(±1%+1kV), mA<(±4%+1mA), mAs <(±4%+0.1mAs)</p> <p>LINEARITY Coefficient of Linearity <0.01:CL=(X1-X2)/(X1+X2),where X is mR/mAs</p> <p>MECHANICALSPECIFICATION</p> <p>C-ARM Movement</p> <p>C-ARM Free Space 890mm</p> <p>C-ARM Depth 702mm</p> <p>C-ARM Orbital Movement 135°</p> <p>Horizontal Movement 200mm</p> <p>Vertical Movement 500mm</p> <p>Panning ±12.5°</p> <p>Width 800mm</p> <p>C-ARM ROTATION</p> <p>Rotation Range Right 180°, Left 180°</p> <p>Locking Manual</p> <p>SID</p> <p>Fluoroscopy 1.1m</p> <p>Radiography 1.1m</p> <p>COLLIMATOR</p> <p>Operating Type REMOTE MOTOR DRIVE</p> <p>Structure Lead Shutters</p> <p>Shutter Speed</p> <p>Open – Close Maximum less than 12 sec</p> <p>2 Nos MEDICAL GRADE MONITOR 27" including Monitor Stand Accessories: AC power cord, Signal Cable, USB cable. Accessories for Protection: 3 Nos Apron lead thickness 0.5mm, 2 Nos Thyroid shield lead thickness 0.5mm, X-Ray Cassette Holder</p> <p>Online UPS capable to the system.</p>
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Note: Dual Certificate is mandatory from the following and it shall be online verifiable

1. CE/EC (European)
2. US-FDA (US-Food and Drugs Authority)
3. MHLW (Ministry of Health Labor and Welfare)

Important Note.

The successful firm shall be responsible for X-Ray Room preparation as per standard / requirements of PNRA.