Description of Function	Fill your Specification
Jsed for routine X-ray examinations at healthcare facilities.	
Technical Specifications	
hould be floor to floor mounted	
X-ray Generator:	
Aicroprocessor based, high frequency inverter generator, the generator shall have at least 0kHz.	
Generator Output: not less than 30 Kw	
Radiographic voltage: 40 kV to 140kV, in 1Kv step.	
Radiographic current approx : 10 to 350 mA	
Exposure time: 0.001sec (1msec) - 10sec	
Anatomical Programmable Radiographic mode shall be available.	
Aanual & automatic exposure control and automatic brightness control shall be available.	
hall come with overload protection device.	
loor Mounted Tube Stand:	
ongitudinal travel: approx. 1750mm.	
Vertical travel: from 630 -1850mm or in the range.	
Avenue arrested by electromagnetic brakes.	
Rotation of tube arm around vertical axis: 1800; lockable at 00 to +/- 900.	
۲-Ray Tube:	
Aaximum tube output shall match with the generator output of not less than 30 Kw.	
X-ray tube rotating: +/-90°.	
arge focus not more than 1.2 mm.	
mall focus not more than 0.6 mm.	
Aaximum tube voltage 140 KV.	
iltration: min 2.5mm Al equivalent.	
Cooling method passive or forced air and/or oil cooling.	
Anode rotating speed: More than 3000 rpm.	
Anode heat capacity shall not be less than 200 KHU.	
Collimator:	
Aanually adjustable.	
Aanually selectable filters.	
ight localizer with timer controlled light.	
Built-in light switch should be provided.	
Surning angle should be min +/- 45 degree.	
ight source: halogen lamp or better.	
Radiography Patient Table:	
adiography table shall be fixed height, 4-way floating top type with foot switch control.	
Come with grid and cassette tray, with grid ratio: approx 8:1 or more. Grid line number: 40 ine/cm. Focus distance: 115cm.	
Cassette size: accept all sizes from cassette 5" x 7" cm to 14" x 17" type.	
Radiography table shall be fixed height of about 60cm.	
able top to film distance: approx. 6cm.	
able top to min distance. approx. och. able top transverse movement : approx. ±14cm.	
Table longitudinal movement : approx. ± 29 cm.	
Table top dimension: approx. 2000 x 800 mm (LxW)	
able movement arrested by electromagnetic brakes.	
Capable of carrying patient weight not less than 150 Kg.	
Toor Mounted Bucky Stand:	
Vertical travel: from 460-1700mm or in the range.	
Aving Grid with Grid ratio approx: 8:1 or more. Grid line number: 40 lines/cm.	
Shall come with Automatic Exposure Control for vertical bucky exposures.	
Cassette size: accept all sizes from 5"x7" to 14"x17".	
Avenue are stated by electromagnetic brakes.	
Control Console:	
Digital Display.	
Ainimum 3 Point Exposure Technique.	

Description of Function	Fill your Specification
Shall come with radiography remote control in control room.	
Accessories, spares and consumables	
All standard accessories, consumables and parts required to operate the equipment.	
Lead apron, light weight with Lead equivalence 2mm- 02 nos.	
Power supply:	
Power supply: 220/240 V AC , 50Hz single phase schuko plug OR $415 \pm 5\%$ V (3 Phase), 50Hz fitted with appropriate plug	
Environmental factors	
The unit shall be capable of being stored continuously in ambient temperature of 0 -55deg C and relative humidity of 15-95%	
The unit shall be capable of operating in ambient temperature of 20-50 deg C and relative humidity of 80%	
Standards & Safety Requirements	
Should be CE or FDA approved product certificate.	
Warranty	
Comprehensive warranty for 2 years.	
Availability of spare parts for minimum (10) years.	
User Training	
Must provide operating and service trainings local and overseas	
Documentation	
User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
Service (Technical / Maintenance) manual in English Should provide 2 sets(hardcopy and	
soft-copy)	
List of important spare parts, accessories and consumables with their part numbers and costing.	
Certificate of calibration and inspection from factory.	

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C-Arm Machine

Description of function	Fill your Specification
Used in orthopaedic fractures for imaging of bone pathology or fractures on display monitor	
during operation.	
Technical specifications	
X-Ray Generator	
Microprocessor based, high frequency inverter generator, output: not less than 8 kw	
Fluoroscopic/ Radiographic KV range: 40-110 kv	
Fluoroscopic mA range: 0.1-9 mA	
X-Ray Tube	
Output should match the output of the generator,	
Rotating anode type, dual focal spot, shall not be more than 0.6 mm and 1.2 mm	
Anode heat storage capacity not less than 300 KHU	
Inherent filtration should be at least 3 mm Al eq	
Should be operator controlled automatic collimation	
C-Arm:	
Focus - I.I. Distance shall be at least 100 cm	
Depth shall be ~ 75cm	
Horizontal travel at least 200mm	
Vertical travel at least 450 mm	
Orbital movement shall be ~125°	
Swivel range shall be $\sim 12^{\circ}$	
Rotation about horizontal axis shall be more than +/-180°	
Image Intensifier:	
At least 23 cm input screen with direct coupling with camera	
Shall be at least 52 lp/ cm	
Noise reduction, scattered light trap for high contrast dynamics	
CCD camera technology with ABC and AGC control	
TV Monitor:	
2 units LCD monitor side by side for live and reference image	
Shall be at least 43 cm with automatic brightness control	
Should have image rotation facilities	
Shall be at least 625 scanning lines at 50 Hz	
Trolley for 2 display screens and with the alphanumeric keyboard included	

Description of Function	Fill your Specification
High resolution and anti glare	
Imaging Modes	
Fluoroscopy mode shall have the following facilities:	
Continuous fluoroscopy with last image hold	
Last image hold with at least two frames image memory	
Continuous fluoroscopy with image acquisition rate: about 20 frame/second.	
Hard disk with image storage capacity of at least 25000 images	
RAM Memory of 256 images	
Mosaic display of 16 images	
Zoom (x 2)	
Measures: at least distances, angles	
Accessories, spares and consumables	
All standard accessories, consumables and parts required to operate the equipment.	
Sterilizable textile cover and clips, for the X-ray tube and the Cassette holder for 24 x 30 cm	
Lead apron, light weight with Lead equivalence 2mm- 02 nos.	
Power supply:	
Input power supply: 220/240 V AC, 50Hz single phase schuko plug	
Environmental factors	
The unit shall be capable of being stored continuously in ambient temperature of 0 -55deg C and relative humidity of 15-95%	
The unit shall be capable of operating in ambient temperature of 20-50 deg C and relative humidity of 80%	
Standards and safety requirements	
Should be FDA or CE approved product certificate.	
Warranty	
Comprehensive warranty for 2 years.	
Availability of spare parts for minimum (10) years.	
User Training	
Must provide operating and service trainings local and overseas	
Documentation	
User (Operating) manual in English Should provide 2 sets(hardcopy and soft-copy)	
Service (Technical / Maintenance) manual in English Should provide 2 sets(hardcopy and	
soft-copy)	
List of important spare parts, accessories and consumables with their part numbers and	
costing.	
Certificate of calibration and inspection from factory.	