TUBE STAND:

- Floor to Ceiling Stand with Counter Balanced Tube Head (Rotatable ± 180 Degree), 360 Degree Rotatable; mounted on Floor Ceiling Rails for convenient movements should be provided.

TABLE:

Table should be with 4-way movement of the table top i.e. x axis and y axis. The Table should consist of consist of-motorized reciprocating bucky with Grid of size 17 ¼" x 18 7/8" having Grid Ratio of 8:1 – 85 lines/inch & a stainless steel Cassette Tray. The Bucky should travel the entire length of the table and should be locked at any desired position by an Electromagnetic lock.

VERTICAL BUCKY STAND:

- Vertical Bucky Stand with oscillating Grid of Ratio 8:1, 85 lines should be provided.
- The Bucky should moves up & down & is equipped with a stainless steel cassette tray.
- The stand should be floor-mounted type & can accommodate cassettes up to 14" X 17". The Bucky should be tilted in 6 steps of 15 degree Angle each for various Radiographs.

POWER REQUIREMENT:

The unit should be operable on 3 Phase, 440Volts AC 50Hz with line resist less than 0.4 Ohms. Line Regulation ±10%.

OTHER REQUIREMENTS:

- The company should be ISO-9001: 2008, ISO-13485: 2012 certified.
- Unit should be approved by B.I.S. (Bureau of Indian Standards) for Mechanical & Electrical Safety.
- The unit should be approved by AERB.
- The company should have a local Service center.
- The company should have proven record of accomplishment in Govt. sector.
- The unit should be European CE Certified from notified body.

Essential Criteria:

1. Demonstration mandatory at hospital premises at OEM cost.
2. CMC offered for the quoted equipment should not be more than 5% of the quoted model with not more than 5% escalation per year after completion of CMC period.
3. CMC offered for the quoted equipment must be on OEM letterhead for further years. (CMC offered on distributors/ Vendor letterhead will not be considered).
4. Installation process should be performed by OEM trained service engineer/ service representative on OEM's letter head/ service report, with a mandatory provision of providing preventive service visits of OEM trained service engineer/ service representative quarterly per year till completion of warranty period (i.e. 20 visits for first five years) and further quarterly visit (04 visits/ year) till the completion of CMC period.
5. The installation process must be completed by the OEM/ Service provider within 30 days of supply.
6. The accessories/ consumables utilized during the period of installation process should be taken care FOC by OEM/ Service provider.
7. The equipment complies with the requirement of the Medical Device Directive of class I equipment and Electromagnetic compatibility, all supporting documents must be provided.
8. **Equipment should have brand name / model number embossed/ etched on the equipment.**
9. In case of technical snag/ failure/ breakdown, the response time for Inspection should be within 24 Hour and repair within 5 days, otherwise provide a service machine until the period of recovery of breakdown of the unit. Failing which will attract penal action as per the decision of the University (Uptime guarantee of 95%).
10. The page of technical bid should be numbered and checklist should be duly filled as per the annexures and all annexures should be in accordance with the format, otherwise it may be the reason for disqualification.
11. All the technical specifications accepted in the compliance statement must be supported by **Original Literature from the firm/ O.E.M with Highlighting, Numbering & flagging as per below mentioned format for the compliance statement.**

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2			

SPECIFICATIONS FOR CENTRAL STATION

1. Central station with possibility for 4 to 32 patient interface using single CPU.
2. Central station should be quoted with 22" display as standard.
3. Dual display should be possible especially with 12, 16 and 32 bed options.
4. Central station should display up to 4 waveforms per bed and possibility of all leads of ECG
5. Central station should have ability to connect any multiple model of patient monitors from respective company including Telemetry monitors (i.e. mix of monitor models from same company)
6. Two hrs full disclosure (waveform storage) for four continuous waveforms as standard feature. Option of expanding full disclosure to 28, 48 or 72 hrs. System should also have option of expanding waveform storage for up to 16 continuous waveforms.
7. It should have clinical applications design to support patient assessment and clinical document such as calliper measurements, ST analysis, trend review and ventilator management.
8. 32-bed alarm surveillance should be possible.
9. Central station should have up to 72 hrs of data storage
10. Option of remote clinical application to view a patient's near real time monitoring data and/or view of full disclosure and event view from point of care, at the point of hospital intranet access or any point in between with web based application designed to ensure clinicians to stay informed without visit to central station. Quote separately and specify the no of central station interface capacity with one software.

Scope of supply must include:

Central Station:

a. 22" Touch display
b. 16 bed license (based on no of monitors to be connected
c. UPS with 30 min backup
d. Dual display option (based on number of monitors to be connected)
e. Networking cost to be included
f. Networking should use good quality component from branded companies.
g. Laser Network Colour printer

Essential Criteria:

1. Demonstration mandatory at hospital premises at OEM cost.
2. CMC offered for the quoted equipment should not be more than 5% of the quoted model with not more than 5% escalation per year after completion of CMC period.
3. CMC offered for the quoted equipment must be on OEM letterhead for further years. (CMC offered on distributors/ Vendor letterhead will not be considered).
4. Installation process should be performed by OEM trained service engineer/ service representative on OEM's letter head/ service report, with a mandatory provision of providing preventive service visits of OEM trained service engineer/ service representative quarterly per year till completion of warranty period (i.e. 20 visits for first five years) and further quarterly visit (04 visits/ year) till the completion of CMC period.
5. The installation process must be completed by the OEM/ Service provider within 30 days of supply.
6. The accessories/ consumables utilized during the period of installation process should be taken care FOC by OEM/ Service provider.
7. The equipment complies with the requirement of the Medical Device Directive of class I equipment and Electromagnetic compatibility; all supporting documents must be provided.
8. **Equipment should have brand name / model number embossed/ etched on the equipment.**
9. In case of technical snag/ failure/ breakdown, the response time for Inspection should be within 24 Hour and repair within 5 days, otherwise provide a service machine until the period of recovery of breakdown of the unit. Failing which will attract penal action as per the decision of the University (Uptime guarantee of 95%).
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2			

MOBILE OPERATING LIGHT (PEDESTAL LIGHT)

1. Dome: 500 mm Diameter
2. Light Intensity: 80,000 LUX
3. Colour Temperature: 4300 ± 10%
4. Field Diameter: 150-200 mm
5. Halogen Bulb: 1 x 24V
6. Input: 220V AC, 50 / 60 Hz
7. Height Adjustment: 1200 mm maximum
8. Dichroic Reflector Dimension: 400 mm

Essential Criteria:

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period of recovery of breakdown of the unit. Failing which will attract penal action as per the decision of the University (Uptime guarantee of 95%).

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SPECIFICATIONS OF EMERGENCY AND TRANSPORT VENTILATOR

1. Should be time-cycled volume constant ventilator operating on mains, battery or ambulance/car battery. Battery backup should be for minimum of 8 hours with touch screen facility with rotary knob also.
2. Ventilator should be of low weight (not more than 3.6 kg) and tropicalized with operation range from – 20 to + 50 degrees centigrade.
3. Should have integrated EL display for display of set and expired data as below :
   - Tidal volume : 100ml - 2 litres.
   - Rate : 2 - 50 breaths/min.
   - PEEP (integrated in main unit) : 0 to 20 mbar/cmH2O
   - Inspiratory Pressure : – 20 – 60 cmH2O
   - Flow trigger : 1 – 15 lpm
   - Pressure Support : 0 – 35 cmH2O
   - FiO2 : 40% or 100%
4. Should have following ventilation modes :
   - IPPV(CMV)
   - Assist Control
   - SIMV
   - CPAP
5. Should have both audio & visual alarms for:
   - High & Low Pressure
   - High pressure
   - Apnea
   - Setting errors
   - Low battery
   - Low pressure supply
6. Standard Scope of supply to include the following :
   - Main unit with inbuilt battery
   - Breathing hose set with expiratory valve and flow sensor
   - Bracket for fixing on trolley / bed rail
   - AC-DC adaptor
   - Oxygen high pressure hose
   - Test Lung
   - Instruction Manual
7. Quality Standards and Support requirements
   - The offered unit should have European CE.
   - The unit should comply with relevant IEC Certification
   - Airworthiness RTCA DO-160 D, section 7,8,21
   - EC Directive 93/42/EEC Class IIb
   - Electromagnetic compatibility ICE/EN 60601-1-2:2001 and ISO 10651-3

- Indian subsidiary/ dealer should have nationwide network, support offices and must be also ISO 9001 certified.

8. Optional features/ requirements:
   - NIV
   - Pressure support
   - Cable for connection with ambulance/ car battery.
   - ETCO2
   - CPR MODE

Essential Criteria:

1. Demonstration mandatory at hospital premises at OEM cost.
2. CMC offered for the quoted equipment should not be more than 5% of the quoted model with not more than 5% escalation per year after completion of CMC period.
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SPECIFICATIONS – DEEP FREEZER (- 20°C)

1. Upright freezer with left or right-hand single door opening.
2. Made of sturdy galvanized material and internal casing of polished stainless steel.
3. Operating temperature of -20°C to -30°C.
4. Capacity -400 litres or more.
5. CFC and HCFC refrigerant free, air-cooled hermetic compressors with dual condenser fans.
6. Fast free switch.
7. Microprocessor controlled temperature and other alarms.
8. Mounted on four lockable castors.
9. Touch pad data entry and digital display of all functions.
10. Key operated main switch, battery-powered independent operating temperature and high/low limit alarm functions for high low temp ±10 K to set temperature, automatic voltage boost to compensate for low voltage.
11. On-board power monitoring with display of incoming voltage.
12. Heated door sealing sturdy inner doors and minimum of three independent inner-compartments.
13. High density door insulation, door provision for padlock.
14. Battery backup.
15. Provision for vacuum release assembly for rapid opening of door for re-entry.
16. 230V AC, 50 Hz cycle, voltage stabilizer with automatic switching or facility.
17. ISO9001 certified or equivalent.

Essential Criteria:

1. Demonstration mandatory at hospital premises at OEM cost.
2. CMC offered for the quoted equipment should not be more than 5% of the quoted model with not more than 5% escalation per year after completion of CMC period.
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representative quarterly per year till completion of warranty period (i.e. 20 visits for first five years) and further quarterly visit (04 visits/ year) till the completion of CMC period.

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SPECIFICATIONS – DEEP FREEZER (- 80°C)

1. Ultra low temperature freezer upright type made of sturdy galvanized material and internal casing of polished stainless steel.
2. Operating temperature of -80°C to -35°C.
3. Capacity -400 litres or more.
4. CFC and HCFC refrigerant free, air-cooled hermetic compressors with dual condenser fans.
5. Microprocessor controlled temperature and other alarms.
6. Mounted on four lockable castors.
7. Touch pad data entry and digital display of all functions.
8. Key operated main switch, battery-powered independent operating temperature and high/low limit alarm functions for high low temperature +/-10 K to set temperature, automatic voltage boost to compensate for low voltage.
9. On-board power monitoring with display of incoming voltage.
10. Heated door sealing sturdy inner doors and minimum of three independent inner-compartments.
11. High-density door insulation, door provision for padlock.
12. Battery backup.
13. Provision for vacuum release assembly for rapid opening of door for re-entry.
14. 230V AC, 50 Hz cycle, voltage stabilizer with automatic switching or facility.
15. ISO9001 certified or equivalent.

Essential Criteria:

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BIDDER CRITERIA FOR : SURGICAL INSTRUMENTS FOR OBST & GYNAE

1	All Surgical Instruments should be European CE certified.
2	All Surgical Instruments should meet criteria - ISO 9001 : 2008, ISO 13485 : 2003, ISO 7153-1 : 2016, ISO 14001 :2004 & ISO 18001 :2007 certified company
3	Company should have WHO GMP certificate must be enclosed with the tender.
4	All Surgical instruments should be made of 4 series AISI 420 and AISI 410 steel and certified copy must have to submit at the time of tender submission.
5	All Surgical instruments/Micro Surgical Instruments must have stoneware coating, high surface hardness and anti-glaring surface for better vision.
6	In case of Indian Manufacturer must have to submit their manufacturing & NSIC certificate
7	The surgical instrument's Manufacturer should provide demonstration as and when required.
8	Bidder should submit original literature/Brochure of quoted model of Surgical Instruments
9	The surgical instrument's Manufacturer should clearly mentioned: (A) warranty period (B) shelf life of Instruments © IFU (Instructions for users) of surgical instruments regarding recommended method of cleaning and sterilization of the instruments.
10	The surgical instrument's Manufacturer should provide the details of service centre in state of U.P.
11	All SS hollowware instruments should be of same parent company or same manufacturer and must be clearly mentioned in Original catalogue.
12	All Instruments should have engraved logo of U.P. Govt. at the time of supplies.
13	The surgical instrument's Manufacturer should provide the offer as per required surgical instrument list.

Essential Criteria:

1. Demonstration mandatory at hospital premises at OEM cost.
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BIDDER CRITERIA FOR : SURGICAL SMALL INSTRUMENT SET

1	All Surgical Instruments should be European CE certified.
2	All Surgical Instruments should meet criteria - ISO 9001 : 2008, ISO 13485 : 2003, ISO 7153-1 : 2016, ISO 14001 :2004 & ISO 18001 :2007 certified company
3	Company should have WHO GMP certificate must be enclosed with the tender.
4	All Surgical instruments should be made of 4 series AISI 420 and AISI 410 steel and certified copy must have to submit at the time of tender submission.
5	All Surgical instruments/Micro Surgical Instruments must have stoneware coating, high surface hardness and anti-glaring surface for better vision.
6	In case of Indian Manufacturer must have to submit their manufacturing & NSIC certificate
7	The surgical instrument's Manufacturer should provide demonstration as and when required.
8	Bidder should submit original literature/Brochure of quoted model of Surgical Instruments
9	The surgical instrument's Manufacturer should clearly mentioned: (A) warranty period (B) shelf life of Instruments © IFU (Instructions for users) of surgical instruments regarding recommended method of cleaning and sterilization of the instruments.
10	The surgical instrument's Manufacturer should provide the details of service centre in state of U.P.
11	All SS hollowware instruments should be of same parent company or same manufacturer and must be clearly mentioned in Original catalogue.
12	All Instruments should have engraved logo of U.P. Govt. at the time of supplies.
13	The surgical instrument's Manufacturer should provide the offer as per required surgical instrument list.

Essential Criteria:

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BIDDER CRITERIA FOR : SURGICAL INSTRUMENTS FOR ORTHOPEDICS

1	All Surgical Instruments should be European CE certified.
2	All Surgical Instruments should meet criteria - ISO 9001 : 2008, ISO 13485 : 2003, ISO 7153-1 : 2016, ISO 14001 :2004 & ISO 18001 :2007 certified company
3	Company should have WHO GMP certificate must be enclosed with the tender.
4	All Surgical instruments should be made of 4 series AISI 420 and AISI 410 steel and certified copy must have to submit at the time of tender submission.
5	All Surgical instruments/Micro Surgical Instruments must have stoneware coating, high surface hardness and anti-glaring surface for better vision.
6	In case of Indian Manufacturer must have to submit their manufacturing & NSIC certificate
7	The surgical instrument's Manufacturer should provide demonstration as and when required.
8	Bidder should submit original literature/Brochure of quoted model of Surgical Instruments
9	The surgical instrument's Manufacturer should clearly mentioned: (A) warranty period (B) shelf life of Instruments © IFU (Instructions for users) of surgical instruments regarding recommended method of cleaning and sterilization of the instruments.
10	The surgical instrument's Manufacturer should provide the details of service centre in state of U.P.
11	All SS hollowware instruments should be of same parent company or same manufacturer and must be clearly mentioned in Original catalogue.
12	All Instruments should have engraved logo of U.P. Govt. at the time of supplies.
13	The surgical instrument's Manufacturer should provide the offer as per required surgical instrument list.

Essential Criteria:

1. Demonstration mandatory at hospital premises at OEM cost.
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BIDDER CRITERIA FOR : SURGICAL INSTRUMENTS FOR OPHTHALMOLOGY

1	All Surgical Instruments should be European CE certified.
2	All Surgical Instruments should meet criteria - ISO 9001 : 2008, ISO 13485 : 2003, ISO 7153-1 : 2016, ISO 14001 :2004 & ISO 18001 :2007 certified company
3	Company should have WHO GMP certificate must be enclosed with the tender.
4	All Surgical instruments should be made of 4 series AISI 420 and AISI 410 steel and certified copy must have to submit at the time of tender submission.
5	All Surgical instruments/Micro Surgical Instruments must have stoneware coating, high surface hardness and anti-glaring surface for better vision.
6	In case of Indian Manufacturer must have to submit their manufacturing & NSIC certificate
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10	The surgical instrument's Manufacturer should provide the details of service centre in state of U.P.
11	All SS hollowware instruments should be of same parent company or same manufacturer and must be clearly mentioned in Original catalogue.
12	All Instruments should have engraved logo of U.P. Govt. at the time of supplies.
13	The surgical instrument's Manufacturer should provide the offer as per required surgical instrument list.

Essential Criteria:

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BIDDER CRITERIA FOR : SURGICAL INSTRUMENTS FOR ENT

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3	Company should have WHO GMP certificate must be enclosed with the tender.
4	All Surgical instruments should be made of 4 series AISI 420 and AISI 410 steel and certified copy must have to submit at the time of tender submission.
5	All Surgical instruments/Micro Surgical Instruments must have stoneware coating, high surface hardness and anti-glaring surface for better vision.
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13	The surgical instrument's Manufacturer should provide the offer as per required surgical instrument list.

Essential Criteria:

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3. CMC offered for the quoted equipment must be on OEM letterhead for further years. (CMC offered on distributors/ Vendor letterhead will not be considered).
4. **Instruments should have brand name/ model number embossed/ etched on the equipment.**
5. The page of technical bid should be numbered and checklist should be duly filled as per the annexures and all annexures should be in accordance with the format, otherwise it may be the reason for disqualification.

6. All the technical specifications accepted in the compliance statement must be supported by **Original Literature from the firm/ O.E.M with Highlighting, Numbering & flagging as per below mentioned format for the compliance statement.**

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BIDDER CRITERIA FOR : ASSORTED MISC SURGICAL INSTRUMENTS FOR MINOR OT

1	All Surgical Instruments should be European CE certified.
2	All Surgical Instruments should meet criteria - ISO 9001 : 2008, ISO 13485 : 2003, ISO 7153-1 : 2016, ISO 14001 :2004 & ISO 18001 :2007 certified company
3	Company should have WHO GMP certificate must be enclosed with the tender.
4	All Surgical instruments should be made of 4 series AISI 420 and AISI 410 steel and certified copy must have to submit at the time of tender submission.
5	All Surgical instruments/Micro Surgical Instruments must have stoneware coating, high surface hardness and anti-glaring surface for better vision.
6	In case of Indian Manufacturer must have to submit their manufacturing & NSIC certificate
7	The surgical instrument's Manufacturer should provide demonstration as and when required.
8	Bidder should submit original literature/Brochure of quoted model of Surgical Instruments
9	The surgical instrument's Manufacturer should clearly mentioned: (A) warranty period (B) shelf life of Instruments © IFU (Instructions for users) of surgical instruments regarding recommended method of cleaning and sterilization of the instruments.
10	The surgical instrument's Manufacturer should provide the details of service centre in state of U.P.
11	All SS hollowware instruments should be of same parent company or same manufacturer and must be clearly mentioned in Original catalogue.
12	All Instruments should have engraved logo of U.P. Govt. at the time of supplies.
13	The surgical instrument's Manufacturer should provide the offer as per required surgical instrument list.

Essential Criteria:

1. Demonstration mandatory at hospital premises at OEM cost.
2. CMC offered for the quoted equipment should not be more than 5% of the quoted model with not more than 5% escalation per year after completion of CMC period.
3. CMC offered for the quoted equipment must be on OEM letterhead for further years. (CMC offered on distributors/ Vendor letterhead will not be considered).
4. **Instruments should have brand name/ model number embossed/ etched on the equipment.**

5. The page of technical bid should be numbered and checklist should be duly filled as per the annexures and all annexures should be in accordance with the format, otherwise it may be the reason for disqualification.

6. All the technical specifications accepted in the compliance statement must be supported by **Original Literature from the firm/ O.E.M with Highlighting, Numbering & flagging as per below mentioned format for the compliance statement.**

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BIDDER CRITERIA FOR : SURGICAL INSTRUMENTS SURGICAL SET

1	All Surgical Instruments should be European CE certified.
2	All Surgical Instruments should meet criteria - ISO 9001 : 2008, ISO 13485 : 2003, ISO 7153-1 : 2016, ISO 14001 :2004 & ISO 18001 :2007 certified company
3	Company should have WHO GMP certificate must be enclosed with the tender.
4	All Surgical instruments should be made of 4 series AISI 420 and AISI 410 steel and certified copy must have to submit at the time of tender submission.
5	All Surgical instruments/Micro Surgical Instruments must have stoneware coating, high surface hardness and anti-glaring surface for better vision.
6	In case of Indian Manufacturer must have to submit their manufacturing & NSIC certificate
7	The surgical instrument's Manufacturer should provide demonstration as and when required.
8	Bidder should submit original literature/Brochure of quoted model of Surgical Instruments
9	The surgical instrument's Manufacturer should clearly mentioned: (A) warranty period (B) shelf life of Instruments © IFU (Instructions for users) of surgical instruments regarding recommended method of cleaning and sterilization of the instruments.
10	The surgical instrument's Manufacturer should provide the details of service centre in state of U.P.
11	All SS hollowware instruments should be of same parent company or same manufacturer and must be clearly mentioned in Original catalogue.
12	All Instruments should have engraved logo of U.P. Govt. at the time of supplies.
13	The surgical instrument's Manufacturer should provide the offer as per required surgical instrument list.

Essential Criteria:

1. Demonstration mandatory at hospital premises at OEM cost.
2. CMC offered for the quoted equipment should not be more than 5% of the quoted model with not more than 5% escalation per year after completion of CMC period.
3. CMC offered for the quoted equipment must be on OEM letterhead for further years. (CMC offered on distributors/ Vendor letterhead will not be considered).
4. **Instruments should have brand name/ model number embossed/ etched on the equipment.**

5. The page of technical bid should be numbered and checklist should be duly filled as per the annexures and all annexures should be in accordance with the format, otherwise it may be the reason for disqualification.

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TECHNICAL SPECIFICATION OF ICU BEDS

1. It should be robust, safe, easy-to-use, helps to reduce the risk of staff injuries and provides a safer environment for the caregiver with minimum **seven functionality** - Back Rest / Knee Rest / Trendelenburg/ Reverse Trendelenburg / High – Low / Back Rest – Knee Rest simultaneously/ Cardiac Chair Position/ Automatic CPR and special Neuro Position . **Exit Area**: both sides of the bed should be illuminated, to help & improve resident/patient safety and security.
2. It should have **Back Rest tilt:** between: 60° -75°, **Head Down & Foot Down tilt** between: 10° - 12°, **Knee Rest tilt** between: 0-35, **Trendelenberg** between: 0-12 Degree : **Reverse Trendelenberg** between: 0-12 Degree with compatible **X ray** at backrest with **Auto Contour** :all functionality should be operated by separate actuators by **hand held remote control** single touch button , to adjust the bed into a comfortable position, - getting backrest, knee flexion and calf elevation which enhances the patient comfort

3. It should have following technical features :- **Standard Length** of approx: 2200 - 2350 mm (215-220 cm), **Extended Length** of approx: 2300 - 2500 mm (215-220 cm) **Standard Width** of approx: 1025 - 1035 mm, **Standard Top height** with the available 120-130 mm castors approx: 750-765 mm, **Standard Low height** with the available 120-130 mm castors approx: 315 mm- 325 mm, with a capacity of **Safe working load/Maximum Patient Weight** – 150/ 250 kg, **Standard Side Railing :** high duty ABS , **Standard Railing area covering :** 90% - 95% of the bed length for achieving total safety to the Patient. **I.V Saline Stand Provision**: 04 locations and should have facility to insert into the sleeves on either side of the bed, **Mattress guard**: metal with a property of non corrosive for achieving proper terminal disinfection thru low level disinfection solution **Base of ICU Bed** : should be designed with close architecture and base fully cover to allow safe access for terminal cleaning, decontamination & fumigation of ICU.

4. The ICU Bed top should be made up of **Complete Metal Components:** CRCA sheet, **Pre Treated** with: epoxy powder coat, **Minimum Powder Coat thickness** between approx: 40-60 microns, with the **Property** of: antibacterial and **Detachable**: ABS head and foot board panels, with option of selecting **Eco Friendly Colours** like: lemon green, pink, red & blue.

5. It should be provided with **Mattress:** 4 section. **Made**: CRCA sheet, **Standard Density** between approx: 40 -50, **Standard length** between approx : 2020 – 2100 mm, **Standard Width** between approx 850 – 900 mm, with **Heavy duty anti bacterial** protection & **Double Covering** for the routine protection of aerial disinfection / fumigation for long duration & **mattresses** to be **flame** retardant to prevent common **fires.**

6. It should have **Separate degree Indicator** in each of the four railing both inside and outside of the rails for achieving proper inclination of the bed for the convenient of the patients & should have 04 **Buffers**, **Made up of**: ABS with having **Standard Diameter approx**: 5.0" - 5. 5" to absorb impact and reduce damage in handling the corners, & for achieving extra protection of in conscious critical patients.

7. It should have very smooth mobility with the **High Grade Castors** mainly: Imported, with having **Standard Diameter** between: 120 - 130 mm & with **Locking** facility: diagonal for safe shifting of patient for performing routine fumigation of the Intensive Care Unit, along with Central Locking System / C P R System & Nurse Control System

8. It should be endorsed with quality certificates like - **CE** Certificate, **WHO GMP**, **ISO** Certified (9001:2008) (13485:2012) (14001:2004) **OHSAS** 18001:2007, **Shock protection:** Class 1, Type B, **Ingress protection:** IPX4, **Safety Standards**: IEC60601-2-52 , Certificate for **Flame Retardant Mattresses** from reputed organization , **M.S.D.S** (Material Safety Data Sheet): in support of non corrosive effectiveness at ICU bed Top, mattress guard & railings, **I.F.U.M** (Instruction of Users Manuel) regarding recommendation of usage of low level disinfection solution for terminal cleaning of Beds .

9. It should have strong **Installation base**: north India with **Minimum Installation** base: 25-50 Beds in Government medical Institutes along with their **Performance Certificate**: 05-10 mandatory (To ensure Easy use, Quality, Safety, After Sales Service) , dedicated **O.E.M trained service Engineers** and north India / local **O.E.M Service Centre** for fast servicing of breakdown with **Uptime guarantee:** 90%.

10. Demonstration mandatory at hospital site at the cost of **O.E.M/ bidder** during technical evaluation.

Essential Criteria:

1. Demonstration mandatory at hospital premises at OEM cost.
2. CMC offered for the quoted equipment should not be more than 5% of the quoted model with not more than 5% escalation per year after completion of CMC period.
3. CMC offered for the quoted equipment must be on OEM letterhead for further years. (CMC offered on distributors/ Vendor letterhead will not be considered).
4. The installation process must be completed by the OEM/ Service provider within 30 days of supply.
5. **Equipment should have brand name / model number embossed/ etched on the equipment.**
6. The page of technical bid should be numbered and checklist should be duly filled as per the annexures and all annexures should be in accordance with the format, otherwise it may be the reason for disqualification.
7. All the technical specifications accepted in the compliance statement must be supported by **Original Literature from the firm/ O.E.M with Highlighting, Numbering & flagging as per below mentioned format for the compliance statement.**

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SPECIFICATION OF VIDEO LARYNGOSCOPE

1. Portable Video Laryngoscope for intubations with minimal manipulation of head & neck, dedicated features for teaching, training & learning in the specialty.
2. Device should have a suitable View angle to visualize glottis without much head & neck manipulation, ergonomically.
3. Device should have CMOS (**Complementary Metal Oxide Silicon**) camera.
4. Device must have fog free medical grade optical polymer blades.
5. Device should have portable color video display LCD of at-least 2.5" size for the real time clear view.
6. Device must be lightweight and not be more than 250 gm.
7. Light sources should be High-Intensity LED.
8. Device should have facility to run independently on Power of 3.6 V Lithium Battery with battery backup to four hour.
9. Device should have indicator for displaying battery life.
10. Device should be supplied with set of different sizes of Disposable blade size 2, 3, 4 and for difficult intubation with disposable blade size 3.
11. For difficult intubation blade, it should be having **FOV around 43- 45°**
12. Device should be immersable for complete disinfection (with out battery)
13. Blades must be of fog free medical grade optical polymer and must be packed in sterile pack.
14. Device should be of durable medical grade thermoplastic with reinforced structured alloy core.
15. All blades should fit into one Handle.
16. Must be supplied with disposable blades 50 of size 3, 50 of size 4 & 30 of size 3X size.

Essential Criteria:

1. Demonstration mandatory at hospital premises at OEM cost.
2. CMC offered for the quoted equipment should not be more than 5% of the quoted model with not more than 5% escalation per year after completion of CMC period.
3. CMC offered for the quoted equipment must be on OEM letterhead for further years. (CMC offered on distributors/ Vendor letterhead will not be considered).
4. Installation process should be performed by OEM trained service engineer/ service representative on OEM's letter head/ service report, with a mandatory provision of providing preventive service visits of OEM trained service engineer/ service representative quarterly per year till completion of warranty period (i.e. 20 visits for first five years) and further quarterly visit (04 visits/ year) till the completion of CMC period.
5. The installation process must be completed by the OEM/ Service provider within 30 days of supply.

6. The accessories/ consumables utilized during the period of installation process should be taken care FOC by OEM/ Service provider.
7. The equipment complies with the requirement of the Medical Device Directive of class I equipment and Electromagnetic compatibility; all supporting documents must be provided.
8. **Equipment should have brand name / model number embossed/ etched on the equipment.**
9. In case of technical snag/ failure/ breakdown, the response time for Inspection should be within 24 Hour and repair within 5 days, otherwise provide a service machine until the period of recovery of breakdown of the unit. Failing which will attract penal action as per the decision of the University (Uptime guarantee of 95%).
10. The page of technical bid should be numbered and checklist should be duly filled as per the annexures and all annexures should be in accordance with the format, otherwise it may be the reason for disqualification.
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SEQUENTIAL COMPRESSION DEVICE FOR DVT PROPHYLAXIS

1. Provides Sequential, Gradient and circumferential compression around the ankle, calf and then the thigh.
2. Sequential Compression around the ankle, then the calf and then the thigh and circumferential compression
3. Gradient compression of 45 mm of Hg at the ankle, 40 mm of Hg at the Calf and 30 mm of Hg at the thigh.
4. Should be compatible to unilateral or bilateral connections.
5. Automatically detect the type of garment.
6. 11 seconds of compression followed by a venting period which is equivalent to the individual venous return
7. Battery backup of an Integrated, Li ion battery for a continuous of 6 to 8 hrs
8. Gradient compression in decreasing range of pressure from ankle to Thigh.
9. Compression cycle frequency is to be dependent on Individual venous return
10. Venous Return of individual patients should be sensed by compression system itself, using the technique of air plethismography.
11. Small, Light-Weight, Kink-Resistant tubing available in 7' and 4' sizes tubing can be "Daisy Chained".
12. Port A and B Indicators, Simplified audible and visual Alarms.
13. Provides Animated Alarm Resolution where animated icons communicate the cause of alarm and remedies for alarms.
14. Provide improved durability with rating of IPX3, which certifies stable power supply, limited liquid ingress and fully protected battery etc.
15. Controller should provide reduced noise by having vibration dampeners and soft over moulding.
16. Controller should have Graphic user Interface of 3.2inch colour LCD screen which provides larger icons for greater visibility.
17. Controller material should be compatible most of hospital grade cleaning agents.

18. Controller should have USB port make software updates to be easy.

19. Controller should have adjustable bed hook which attaches easily and securely to most footboards.

20. Choice of three styles like'Knee Length, Thigh Length & Foot cuff

21. Battery backup with Heavy duty Li ion battery which supplies power for 8 hours for uninterrupted compression

22. Should have trouble shooting index in the device itself.

23. Sleeves should be comfortable and provide Dry, Cool, soft (DCS) technology to address patient discomfort.

24. System should accommodate single leg operation or both if needed

25. Leg sleeves should have thin fibres of cool venting fabric to reduce itchiness

26. Leg sleeves should have bladder geometry evenly distributes pressure across three bladders with minimal pressure points

27. Leg sleeves should have Pillowcase design delivering an optimal level of flexibility and stretch allowing sleeve layers to glide freely among each other.

28. Machine should be US FDA approved.

Essential Criteria:

1. Demonstration mandatory at hospital premises at OEM cost.
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3. CMC offered for the quoted equipment must be on OEM letterhead for further years. (CMC offered on distributors/ Vendor letterhead will not be considered).
4. Installation process should be performed by OEM trained service engineer/ service representative on OEM's letter head/ service report, with a mandatory provision of providing preventive service visits of OEM trained service engineer/ service representative quarterly per year till completion of warranty period (i.e. 20 visits for first five years) and further quarterly visit (04 visits/ year) till the completion of CMC period.
5. The installation process must be completed by the OEM/ Service provider within 30 days of supply.

6. The accessories/ consumables utilized during the period of installation process should be taken care FOC by OEM/ Service provider.

7. The equipment complies with the requirement of the Medical Device Directive of class 1 equipment and Electromagnetic compatibility; all supporting documents must be provided.

8. **Equipment should have brand name / model number embossed/ etched on the equipment.**

9. In case of technical snag/ failure/ breakdown, the response time for Inspection should be within 24 Hour and repair within 5 days, otherwise provide a service machine until the period of recovery of breakdown of the unit. Failing which will attract penal action as per the decision of the University (Uptime guarantee of 95%).

10. The page of technical bid should be numbered and checklist should be duly filled as per the annexures and all annexures should be in accordance with the format, otherwise it may be the reason for disqualification.

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VOLUMETRIC INFUSION PUMP

1. Should be able to give large volumes to the patients.
2. Should come factory calibrated with at least 2-3 different types of commonly used infusion sets.
3. Should have option of onsite calibration of at least four types of different infusion sets.
4. Should have a flow accuracy of ±5%.
5. Should have three occlusion level settings.
6. Should be able to show continuously, occlusion level of the line.
7. Should have ultrasonic bubble detector.
8. Should have option of On/Off KVO and adjustable KVO from 1-5ml/hr
9. Should have built in Lithium iron phosphate battery with a backup of at least 5 hours.
10. Should not be more than 2.5 kg in weight.
11. Should be able to set two infusion programmes at a time.
12. Should have RS232 interface for bidirectional communication.
13. Should have European CE and valid ISO certificate.
14. Principle Company should have direct presence in India through its Indian Subsidiary.

Essential Criteria:

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2. CMC offered for the quoted equipment should not be more than 5% of the quoted model with not more than 5% escalation per year after completion of CMC period.
3. CMC offered for the quoted equipment must be on OEM letterhead for further years. (CMC offered on distributors/ Vendor letterhead will not be considered).
4. Installation process should be performed by OEM trained service engineer/ service representative on OEM's letter head/ service report, with a mandatory provision of providing preventive service visits of OEM trained service engineer/ service

representative quarterly per year till completion of warranty period (i.e. 20 visits for first five years) and further quarterly visit (04 visits/ year) till the completion of CMC period.

5. The OEM / Service provider must complete the installation process within 30 days of supply.
6. The accessories/ consumables utilized during the period of installation process should be taken care FOC by OEM/ Service provider.
7. The equipment complies with the requirement of the Medical Device Directive of class I equipment and Electromagnetic compatibility; all supporting documents must be provided.
8. **Equipment should have brand name / model number embossed/ etched on the equipment.**
9. In case of technical snag/ failure/ breakdown, the response time for Inspection should be within 24 Hour and repair within 5 days, otherwise provide a service machine until the period of recovery of breakdown of the unit. Failing which will attract penal action as per the decision of the University (Uptime guarantee of 95%).
10. The page of technical bid should be numbered and checklist should be duly filled as per the annexures and all annexures should be in accordance with the format, otherwise it may be the reason for disqualification.
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COMPUTERIZED AMBULATORY DRUG DELIVERY DEVICE (PCA PUMP)

1. Should be ambulatory and should get power from disposable batteries.
2. Should have various drug delivery modes like, Continuous, Demand dose, Clinician Bolus (Used independently or in combination)
3. Same device can be used to deliver drugs via different routes like, Intravenous, Intrathecal, Intra-arterial, Subcutaneous, Epidural, Intraperitoneal
4. Should have air in line detection technology, which can be changed to Off/Low/High sensitivity depending on the need of the department.
5. Should offer programmable demand dose volume, demand dose range of 1-12 demands/hour, with a demand dose lockout period of 5min-24 hours.
6. Should be able to programme the bolus dose and continuous rate in ml, mg, mcg and ml/hr, mcg/hr respectively.
7. Should have built in safety features, like different Lock Levels, upstream and downstream occlusion sensor.
8. Should have IPX rating ≥ 4.
9. Should have some kind of sensor to detect bad fit cassette.
10. Should have atleast nominal accuracy level, $\pm$ 6%
11. Should support 50ml, 100ml and 250ml disposable cassettes for drug delivery.
12. Should have medication and administration sets with anti-siphon valve and anti-siphon filter.
13. The firm should quote of price of all the disposables required to run the machine.
14. IT should have easy to read display, which can provide information concerning programming, adjustments and trouble shooting. .
15. Should have ON/OFF Key
16. Should offer programming flexibility in milliliters, milligrams or micrograms and expanded concentration ranges.
17. The manufacturing company should have direct presence in India with its own service center in India. Should submit the address of both office and service center.
18. Should be USFDA Approved.

Essential Criteria:

1. Demonstration mandatory at hospital premises at OEM cost.
2. CMC offered for the quoted equipment should not be more than 5% of the quoted model with not more than 5% escalation per year after completion of CMC period.
3. CMC offered for the quoted equipment must be on OEM letterhead for further years. (CMC offered on distributors/ Vendor letterhead will not be considered).
4. Installation process should be performed by OEM trained service engineer/ service representative on OEM's letter head/ service report, with a mandatory provision of providing preventive service visits of OEM trained service engineer/ service representative quarterly per

year till completion of warranty period (i.e. 20 visits for first five years) and further quarterly visit (04 visits/ year) till the completion of CMC period.

5. The installation process must be completed by the OEM/ Service provider within 30 days of supply.
6. The accessories/ consumables utilized during the period of installation process should be taken care FOC by OEM/ Service provider.
7. The equipment complies with the requirement of the Medical Device Directive of class I equipment and Electromagnetic compatibility; all supporting documents must be provided.
8. **Equipment should have brand name / model number embossed/ etched on the equipment.**
9. In case of technical snag/ failure/ breakdown, the response time for Inspection should be within 24 Hour and repair within 5 days, otherwise provide a service machine until the period of recovery of breakdown of the unit. Failing which will attract penal action as per the decision of the University (Uptime guarantee of 95%).
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SPECIFICATIONS FOR DIGITAL MAMMOGRAPHY SYSTEM

Full field digital mammography system with state of the art facility for detection of breast cancer with lowest possible radiation dose. The machine should be supplied with Digital Breast tomosynthesis. Only manufacturer / Original Equipment Manufacturer or their authorized subsidiaries are allowed to quote this tender.	
The equipment should be of latest technology.	
All technical specifications must be supported with technical literature and product data sheet. If the required information is not available in the Product Data Sheet and printed technical literature, the same has to be authenticated hy the competent authority of the principal manufacturer. In case of discrepancy, the decision of the technical committee shall be final.	
The detailed specifications that follow shall be understood to be the minimum requirement and any additional feature of the equipment offered should be specified separately which has to be offered as a standard without any extra cost. Such additional features if beneficial to the department and patients for better clinical application will be given due consideration.	
S.No	**Specification**
1	**X-RAY GENERATOR:**
1.1	Type: High frequency.
1.2	Power output: 5KW or more.
1.3	Tube Current: 100 mA or more. (Please specify with data sheet/documentary Proof).
1.4	mAs range: 4-500mAs or more.
1.5	kV range: 20 +/-4kV to 35 kV or more. It should be in 1kV steps or less.
1.6	Displayed parameters kV, mAs, target filter, density selection. Auto record of the exposure parameters for each mammogram.
2	**X-RAY TUBE UNIT:**
2.1	Single track with Dual focus or dual track with quadruple focus X-ray tube.
2.2	Focal spots of size: small 0.1mm and large 0.3mm or less. Please mention anode material.
2.3	Anode heat storage capacity: 200 KHU or more.
2.3	Specify the Inherent filtration used in the tube.
3	**GANTRY ASSEMBLY:**
3.1	The system should have fully motorized rotation and up / down movement.
3.2	The angle of C-arm movement should be at least +180° to -180°.
3.3	The patient compression device should be motorized, automatic, controlled by foot paddles as well as from gantry and should have multispeed variable system. The compression should be extremely smooth and there should be automatic decompression at the end of each exposure with facility of release of compression force in case of power failure or emergency stop.
3.4	There should be provision for motorized and manual compression with digital display of compression force and compression thickness.
3.5	Mention the compression modes available along with force range.
3.6	The compression should be extremely smooth and there should be automatic decompression at the end of each exposure.
3.7	Facility of release of compression force in case of power failure or emergency stop.
3.8	Control buttons for adjustment of height and angles should be operable from gantry as well as fromfoot paddles.
3.9	SID should be in the range of 650mm to 700mm.
3.10	Programmable auto positioning from acquisition work station should be available.

3.11	Magnification factor should be minimum 1.5 or 1.8
3.12	Grid ratio should be 5:1 or better with at least 30 lines per cm.
3.13	Motorized installation and removal/ auto retract of grid/ breast support assembly system should be available for geometric magnification.
4	The following paddles one each should be supplied as standard.
4.1	Small paddle for 18x24+/-1cm with tilting facility
4.2	Large paddle 24x30 cms +/-1cm
4.3	1.8 or 1.5 Magnification attachment with field magnification and spot magnification paddles
4.4	Axillary / sliding compression paddle.
5	**EXPOSURE CONTROL**
5.1	Should have manual, semi-automatic and automatic mode (AEC) techniques with flexibility to select parameters manually, automatically or in combination. Advanced AEC technology, if any will be preferred.
5.2	The anode track and filters shall be selected automatically and manually.
5.3	Should have the display facility of all parameters after exposure.
5.4	Should display the dose delivered after exposure.
6	**FLAT PANEL DETECTOR**
6.1	Should have a large flat panel detector of size at least 24x30 +/-1cm and the pixel size should be70 micrometer or less. Flat panel detector with less pixel size will be preferred.
6.2	Detector technology and material used should be mentioned.
6.3	Image matrix in pixel should be mentioned.
6.4	No Ghosting or lag effect should be present; Image bit depth should be at least 14 bits.
7	**DIGITAL ACQUISITION WORKSTATION WITH DUAL MONITORS**
7.1	Storage capacity should be 8000 images or more
7.2	The following imaging processing should be possible on the work station:
7.2a	a. Measurements
7.2b	Zoom, roam, magnification
7.2c	Brightness and contrast change
7.2d	Image inversion
7.2e	Flip rotate inward
7.2f	Annotations, measurements
7.2g	Image evaluation like contrast enhancement histogram display, length measurements before and after comparison etc.
7.2h	Filming from acquisition work-station should be possible.
7.3	Time to display image and time between two exposures to be mentioned.
7.4	Should provide one2MP medical grade monitorwith high luminance.
7.5	State of art associated software technology should be available with the data acquisition system. Kindly mention the features, advantages and upgradability.
7.6	It should be possible to receive the demographic patient data directly from Hospital

	Information System. The demographic patient data should also be able to be entered manually. Retrieval of images from CD, DVD or PACS should be possible.
7.7	It should be DICOM ready and mention the facilities related to connectivity.
7.8	Film prints and CD, DVD copying should be possible.
8	**REPORTING WORK STATION AND ARCHIVING**
	The following monitors required are in addition to the acquisition workstation including monitor / monitors (depending on vendor configuration of acquisition console):
8.1	Two 5 megapixel medical grade (DICOM calibrated) monitor
8.2	The following imaging processing should be possible on the work station also:
8.2a	Measurements
8.2b	Zoom, roam, magnification. Quadrant zooming or selected zooming function should be available
8.2c	Brightness and contrast control. It should be possible to see angulated zoom view of MLO images.
8.2d	Image inversion
8.2e	Flip rotate inward
8.2f	Annotations, measurements
8.2g	Filming and CD, DVD copying should be possible
8.3	There should be a DVD ROM drive; The RAM should be minimum 4GB. The storage capacity should be more than 8000 images. Hard disk capacity should be expandable.
9	**TOMOSYNTHESIS**
9.1	Tomosynthesis scan angle should be 25 ° or more
9.2	Scan time- Please specify the scan time
9.3	Please specify the acquisition time per projection
9.4	Number of projections- Please specify
9.5	Distance between reconstructed slices-1mm or less
9.6	Display on the Workstation monitor-projections, reconstructed slices, cine mode, dose per projection, dose per scan
9.7	It should be Inclusive of any specific tomosynthesis compression paddles if required.
9.8	It should be possible to re-construct 2D image with acquired projections and 2D plus tomosynthesis acquisition in single breast compression.
10	**MISCELLANEOUS**
10.1	Should be supplied with transparent lead radiation shield, remote service modem, quality control tool kit, user manual, technical documentation etc.
10.2	Dedicated online UPS for the entire machine and accessories supplied including the workstation shall be provided for a minimum backup of 15 minutes.
10.3	Should be supplied with ACR phantom
10.4	The quoting vendor should have AERB Type approval for the quoted model in its name and its installation must conform to AERB guidelines and site approval plan from AERB has to be done by the company at no extra cost. Quoted model should be USFDA or CEcertified.
10.5	Vendor should have atleast five installation sites in India of the quoted model with performance certificates.
10.6	Three-tray online Dry view Laser camera suitable resolution for mammography screening to be provided for film printing purpose.
10.7	One week onsite Training by application specialist of the company should be provided to the institution staff.This should be followed by similar two visits of one week each in the initial 6 months or whenever required. The visits should be scheduled in consultation with the department of Radio-diagnosis.

Essential Criteria:

1. Demonstration mandatory at hospital premises at OEM cost.
2. CMC offered for the quoted equipment should not be more than 5% of the quoted model with not more than 5% escalation per year after completion of CMC period.
3. CMC offered for the quoted equipment must be on OEM letterhead for further years. (CMC offered on distributors/ Vendor letterhead will not be considered).
4. Installation process should be performed by OEM trained service engineer/ service representative on OEM's letter head/ service report, with a mandatory provision of providing preventive service visits of OEM trained service engineer/ service representative quarterly per year till completion of warranty period (i.e. 20 visits for first five years) and further quarterly visit (04 visits/ year) till the completion of CMC period.
5. The installation process must be completed by the OEM/ Service provider within 30 days of supply.
6. The accessories/ consumables utilized during the period of installation process should be taken care FOC by OEM/ Service provider.
7. The equipment complies with the requirement of the Medical Device Directive of class I equipment and Electromagnetic compatibility; all supporting documents must be provided.
8. **Equipment should have brand name / model number embossed/ etched on the equipment.**
9. In case of technical snag/ failure/ breakdown, the response time for Inspection should be within 24 Hour and repair within 5 days, otherwise provide a service machine until the period of recovery of breakdown of the unit. Failing which will attract penal action as per the decision of the University (Uptime guarantee of 95%).
10. The page of technical bid should be numbered and checklist should be duly filled as per the annexures and all annexures should be in accordance with the format, otherwise it may be the reason for disqualification.
11. All the technical specifications accepted in the compliance statement must be supported by **Original Literature from the firm/ O.E.M with Highlighting, Numbering & flagging as per below mentioned format for the compliance statement.**

S. No.	Technical Specification	Compliance Yes / No	Page No. in the proposal submitted where documentary evidence is enclosed as per tender Specs with highlighting, Numbering & flagging
1			
2			

SPECIFICATIONS FOR ROUTINE FLOW FLUID WARMER

1. Delivers blood and intravenous fluid to the patient at normothermic temperature at wide range of flow rates from gravity flow rates to 50-5,000 ml/hr.
2. Keeps blood and fluids warm between 37–42°C
3. Dedicated disposable triple lumen tubing that eliminates patient line cool down of infusion.
4. Should have a single step programming of warmer.
5. Should have an inbuilt reservoir of recirculating fluid.
6. Easy to setup and easy to use
7. Displays set point of recirculating reservoir.
8. Audible and visual alarms if reservoir temperature reaches 43.9 °C
9. Built in over temperature test button and alarm test button.
10. The unit should be supplied with 300 disposables.
11. The Principle Company should have direct presence in India through its Indian Subsidiary.
12. The machine must be US FDA approved.

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MRI COMPATIBLE ADULT TRANSPORT VENTILATOR

1. Should be MRI compatible up to three Tesla.
2. Should be pneumatic and can be used on Adult, Children & Infants.
3. Should be able to wide range tidal volume from 70-1000ml.
4. Should have a wide frequency range 8 to 40 bpm.
5. The ventilator should have CMV, Demand & SIMV Mode & be able to give CPAP & PEEP.
6. Should have a manometer and pressure relief system
7. Should have oxygen supply indicator.
8. Should have Visual and Audible Alarm such as High Pressure, Spontaneous Breath, Low Pressure/ disconnect and Low Battery alarms.
9. Weight not more than 2.5 Kg.
10. Should have Selectable: FiO2% 50% and 100%.
11. Should be European CE & USFDA certified.
12. All the attached (including irreparable items) accessories must be repaired/ replaced, to take care of Ventilator during warranty/Guarantee period to ensure proper and uninterrupted functioning without any extra cost.

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