

## SPECIFICATION OF CARDIAC MOTORIZED BED

### 04-MOTORIZED ELECTRIC BED,

Should have 6 positions (Back Raise, Knee Raise, Hi-Low Adjustment, Trendelenburg, Reverse Trendelenburg and Cardiac Chair Position) with X-ray radiolucent backrest

#### MOVEMENTS:

- Stress saver raise  
(Back raise to reduce stress on patient's body)
- Back Raise 0-70°
- Knee raise 0-25°
- Hi-low adjustment from 350mm to 700mm (Mattress base)
- Trendelenburg/Reverse Trendelenburg position 0 ±12°
- One button cardiac chair position

#### CONTROLS:

- Should have Integrated (Built in side-rail) or separate handheld Controller to perform the various bed positions.

#### CPR FUNCTION:

- Should have both electric CPR function and Manual CPR function.

#### BATTERY:

- Should have Battery with low battery indicator.

#### SIDE RAILS:

- Should have side rail meeting safety standard of IEC 60601-2-52.
- Should Have Anti-tampering Lock feature. (Prevents patient from falling over when patient is attempting to lower the side rail by himself while laying on bed)
- Should have Flexi Grip (grip on siderail to help patient to stand up more easier)
- Should be slide down with Gas Spring shock absorber

#### MATTRESS BASE:

- Made of steel
- Seamless smooth surface for easy and quick cleaning.

#### LOW BED HEIGHT:

- Should have lowest bed height to 350 mm or less. (Allows patient to place his heels firmly on the floor)
- Should have Bed height light indicator. (To indicate its lowest height position)

#### ANGLE INDICATOR:

- Should have angle indicator for back section at both sides. (The 30 degree marked out to assist in ventilator-associated Pneumonia and for other medical assistance)

#### HEAD/FOOT BOARD:

- Should be secured to prevent accidental removal.

#### ROLLER BUMPERS:

- Roller bumpers at each corner of bed.

#### IV POLE:

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- Should have four adjustable hocks with height adjustment.
- Should have facility to place the IV pole on each side of bed for urine and drainage bags etc.

**LOCKING SYSTEM:**

- Should have total lock system with central pedal, and with see-saw pedal and three positions of "Free", "Lock" and "Steer".

**CASTOR:**

- Should have 125 mm or large single wheel castor

**BED DIMENSIONS SHOULD BE:**

- Bed Length 80 Inch or more without extension.
- Bed Width 35 inch or more
- Total height 24 inch to 35 inch

**MATTRESS:**

- Size: W: 860mm L: 1995mm
- Mattress Cover should be:  
MRSA anti-bacterial treated.  
Water proof surface and Flame retardant.  
Material: Cover Polyester/padding urethane foam.  
Mattress must be manufactured by same company manufacturing beds.  
Safe workings load 200 KG or more.

**ADDITIONAL ACCESSORIES:**

**Bedside Table (Over Bed Table):**

- Height Adjustment through Gas Spring
- Castor: 40mm dia x 4pcs

**BEDSIDE CABINET:**

- Pull out table included 40mm dia castor x 4pcs
- Dimensions: (W) 445mm x (D) 460mm x (H) 780mm
- Body power coated steel
- Table & Cabinet top & Drawer: ABS Plastic

All Optional items must be manufactured by same manufacture.

**CERTIFICATION:**

- Should be at least one certification from CE / MHLW / FDA

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## ELECTROSURGICAL UNIT WITH VESSEL SEALING SYSTEM

### SPECIAL FEATURES:

- Microprocessor controlled
- 370W electrosurgical unit with several kind of monopolar and bipolar effects
- Bipolar resection under saline for hystero-resection in Gynecology
- HF visual signal control: to verify the quantity of HF voltage dispatched on Patient
- Automatic Self Test: The Automatic Control System of the internal parameters, signals all abnormalities.
- Digital Display
- Monopolar Cutting and Coagulation from same output at same time by using two button Monopolar Handle.

### INPUT FEATURES:

|               |                                     |
|---------------|-------------------------------------|
| Main supply   | 220V>250V or 110V > 120V 50 or 60Hz |
| Safety        | Class 1 type CF                     |
| Maximum power | 1200 VA (600 W)                     |

### OUTPUT FEATURES:

|                      |         |
|----------------------|---------|
| Waveform             | Sinus   |
| Frequency emitted    | 450 KHz |
| Modulation frequency | 21 KHz  |

### MONOPOLAR CUT:

|                  |   |
|------------------|---|
| Auto Cut:        | Maximum power: 370W / 250 $\Omega$                      |
| PURE CUT:        | 370 W / 250 $\Omega$ without haemostatic effect         |
| BLEND 1:         | 370 W / 250 $\Omega$ , light haemostatic effect         |
| BLEND 2:         | 370 W / 250 $\Omega$ , deep haemostatic effect          |
| ENDOSECTION:     | 370 W / 250 $\Omega$ for gastrointestinal (Polypectomy) |
| Forced Cut:      | Maximum power: 370W / 450 $\Omega$                      |
| FORCED PURE CUT: | forced cut without haemostatic effect                   |
| FORCED BLEND 1:  | forced cut with light haemostatic effect                |
| FORCED BLEND 2:  | forced cut deep haemostatic effect                      |
| ENDOSECTION:     | dedicate for maximum haemostatic effect                 |

### MONOPOLAR CUT UNDER IRRIGATION (Glycine):

|                 |  |
|-----------------|--|
| Forced blend 1: | 370W / 450 $\Omega$ for cut under irrigation monopolar |
|-----------------|--|

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## SYRINGE PUMP

### FEATURES:

- User friendly software simplifies set up and operation
- Large, easily readable LCD display
- Wide range of infusion rate
- Over 55 types of compatible syringes (05-60 ml)
- Drug dose calculation
- Automatic & manual bolus capability
- Automatic reduction of residual bolus after occlusion release
- Easy modification of infusion parameters in running course
- Comprehensive system of audible and visual alarms & warnings
- Drug library with user selectable drug names
- RS 232 interface
- Long battery life
- Data lock with a software controlled passkey system
- Event log (up to 2000 events recorded in real time): on screen display or as XML file
- 4 modes of operation: flow rate, flow rate and volume, flow rate and time, volume over time.

### TECHNICAL SPECIFICATIONS:

- Built in battery: Rechargeable, NiMh 1300 mAh
- Battery life: 24 h at a flow rate of 5 ml/h  
4 h at flow rate of 100ml/h
- Battery charging time: 24 h
- Power Supply: 100-240 V AC, 50/60 Hz, or from a built-in Rechargeable battery.

Complete with all Standard Accessories

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## SPECIFICATIONS OF DEFIBRILLATOR

- Defibrillator with color monitor and recorder and built in rechargeable battery operated.
- Energy delivered 2-200 joules or more.
- Charging time should be less than 7 seconds for 200 joules.
- Bi-Phasic waveform delivery system, ECG through paddles and patient cable,
- Minimum 7 Inches Color LCD Display, Lead Synchronizer,
- Non Fade Display, Trace Speed 25 mm/sec.
- Contact Indicator to check for optimal skin contact via LED'S on paddles, delivered energy level to be printed on the print out.
- Recorder speed 25mm/sec with standard paper of 80mm, digital HR with low/high alarm and Adult & Paediatric Paddles.
- External Pacing.
- Internal paddle with switch button for adult and Paeds.

**DUAL CERTIFICATION IS MANDATORY (FDA & CE or FDA & MHLW or CE & MHLW) FOR DEFIBRILLATOR.**

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CORONARY ARTERY BYPASS GRAFT SURGICAL INSTRUMENT SET (IMPORTED)

REF: \_\_\_\_\_

Date: \_\_\_\_\_

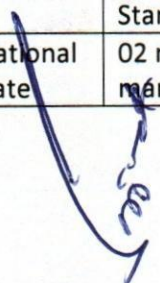
**MEDICAL & TECHNICAL ITEMS (Electro medical Equipment etc.)**

|   |  |   |
|---|--|---|
| Mandatory Documents   | Status on ATL  | Bids without Mandatory documents shall not be considered for evaluation |
|   | Income Tax Registration  |   |
|   | Sales Tax Registration   |   |
|   | Last Year income Tax Returns   |   |
|   | Last Year Sales Returns  |   |
|   | Last 03 years Bank Statement & audit reports by external auditor   |   |
|   | Registration with respective Govt. Department  |   |
|   | Authorized dealer of the original manufacturer   |   |
|   | Certificate that 2% CDR is attached with financial bid   |   |
|   | Affidavit on stamp paper duly attested regarding black listing and other conditions as per provided specimen in the bid document |   |
|   | Warranty with parts as per bid document  |   |
|   | 100% compliance with purchaser's specifications  |   |
| Dual certificates for defibrillator is mandatory ( FDA & CE) or ( FDA & MHLW) or ( CE & MHLW) |  |   |



EVALUATION CRITERIA

| S/No | Parameters   | Detail/Supporting Documents  | Maximum Marks  | Remarks   |
|------|--|--|--|---|
| 1    | Running Cost of quoted item<br><br>(Economical= 20, medium= 15, Costly= 7, Very costly= 0) | List with cost of consumable items of quoted item                                  | 20<br>Concerned Engineer and End User will calculate this cost | Running cost=<br><br>(Actual Cost= )  |
|      |  | List with cost of replaceable accessories of quoted item                           |  |   |
|      |  | Charges NOT covered under warranty   |  |   |
|      |  | Expected numbers/duration of services/test/procedures with brand new accessories   |  |   |
| 2    | Product Sample<br>(Evaluated by End User)  | Additional Special Feature (s) NOT mentioned by the purchaser: up to 10 Marks      | 10   |   |
| 3    | Physical resources   | Established office within 200 Km from purchaser: 2                                 | 2  | Details with supporting documents must be attached.   |
|      |  | Established office beyond 200 Km from purchaser: 1                                 |  |   |
|      |  | List of tools, testing equipment and calibration equipment relevant to the product | 1  |   |
|      |  | Details of spare parts available for quoted items                                  | 1  |   |
|      |  | Detailed Training Plan with resource persons                                       | 1  |   |
| 4    | Technical Staff  | Qualified Technician   | 1  | Short CV with Original Signature of Head HR showing Name, Designation, Education and Experience with the current organization |
|      |  | Diploma Engineer   | 1  |   |
|      |  | Graduate Engineers (For High Tech/Critical Equipment)                              | 2  |   |
|      |  | MSc/PhD Qualification/Foreign Training   | 1  |   |
| 5    | Market Experience in quoted items  | 02 Mark per year. Maximum 10 marks   | 10   | Reputed Govt / Pvt organizations  |
| 6    | International Certifications   | Registration with US Food and Drug Administration (FDA)                            | 3  |   |
|      |  | Registration with European Community (CE)  | 3  |   |
|      |  | Registration with Japan Industrial Standard (JIS)                                  | 3  |   |
| 7    | Manufacturer International performance certificate   | 02 marks per certificate, total 06 marks   | 6  |   |





|                    |  |   |           |  |
|--------------------|--|---|-----------|--|
| 8                  | Manufacturers local performance certificate of quoted equipment by HOD of relevant field of reputed hospital of at least 50 beds. The certificate should NOT be older than THREE years | Performance Certificate from the user mentioning "Excellent, very Good & Good Performance". Maximum marks 10. (Maximum 2 certificates) Excellent= 5, Very Good= 3 & Good=2                    | 10        | Performance Certificates mentioning "Satisfactory" will get ZERO marks |
| 9                  | Warranty   | 01 years beyond asked warranty with parts: 2<br>02 years beyond asked warranty with parts:6<br>03 years beyond asked warranty with parts: 10  | 10        |  |
| 10                 | Post-warranty Maintenance Services including provision of spare parts  | Post-warranty Maintenance Contract offering percentage (%) of the contract value in the Technical Bid. The lowest will get the Full Marks. The rates MUST come from the Original Manufacturer | 05        |  |
| <b>TOTAL MARKS</b> |  |   | <b>90</b> |  |

In Technical Evaluation 70% (63/90) marks will be passing marks

50% weightage would be given to technical evaluation marks and 50% weightage would be for financial.

|                   |   |             |
|-------------------|---|-------------|
| Financial Marks = | $\frac{\text{Lowest Bidder Bid under consideration}}{\text{Bid under consideration}}$ | X 100 X 0.5 |
|-------------------|---|-------------|