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<b>Vender :</b>	<b>Mobile : 00966 505 640 079 - 00966 561 052 512</b>
<b>Attention : Sales Manager</b>	
<b>Enclosed please find our Tender Document for <a href="#">CARDIOLOGY DEPARTMENT</a></b>	
<b>Please submit your best prices for the following items complete specification, Catalogue copy &amp; C.V for units</b>	
<b>Your offer in witting should reach to the undersign before 15 / Dec / 2008</b>	
<b>You may quote your equivalent product if you are unable to offer the specification item</b>	

### **General Requirements for the Negotiable Tender**

- 1- The Manufacture has to offer the Highest & Latest model in the required Item with all the Encouraging specification which let the dean of the tender to choose the Product.
- 2- The offer must contain all Hardware & Software available At time of tender.
- 3- The Manufacture will apply all the Upgrade will be added to the unit Free of Charge.
- 4- The Manufacture will offer clear C.V of the Same Model in his quotation with year of production.
- 5- Warrantee is (5) years including labor & Spare parts & Accessories needed for the perfect work of the unit.
- 6- The Manufacture will assure the wok of the unit during the Warrantee with Minimum of 320 days / Year.
- 7- It will be Service Contract for (5) years after the warrantee period in the offer of the manufacturer.
- 8- It's better for the Manufacturer to offer Basic Unit & alternative for each item.
- 9- It's well known that The Company which will win the Tender is going to Sign the Contract with SGH Group.
- 10- This Contract Details will be Discuses with the Company after The Evaluation with the whole Higher Management SGH Group.
- 11- The specification in the book is the nearly accepted but not restricted so each Company Can offer the best Models which Help doctors & Staff to Offer the Best Benefits for the Patient.

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# INDEX

## DEPARTMENT: CARDIOLOGY

S.No	Items Descriptions	Qty	No. of pages	Manufacture	Origin	Model	Unit Price	Total Price
1	ECHOCARDIOGRAPHY IMAGING SYSTEM WITH STAND .ACCESSORIES WITH 4-D FACILITY	1	1					
2	ECG MACHINE 3/6 CHANNE	3	1					
3	DEFIBRILLATOR/MONITOR WITH PACEMAKER, ADULT & PEDIA PADDLES.	3	1					
4	HOLTER MONITORING & REVIEW STATION WITH ABULATORY BP RECORDING.	1	1					
5	STRESS TEST SYSTEM WITH TREADMILL (wireless connection)	1	1					
6	BIPLANE CARDIOLOGICAL ANGIOGRAPHY SYSTEM FOR CARDIOLOGICAL DIAGNOSTICS AND INTERVENTIONAL PROCEDURES, INCLUDING A DIGITAL IMAGING CHAIN	1	1					
7	AMBULARY ASP MONITOR SYSTEM + 2 RECORDS	1	1					
8	PROTABLE ECHCARDIOGRAPHY	1	1					
9	INTRASTIC BALLON PUMB	1	1					
10	E.E.C.P ( INHANCED EXTERNAL COUNTER PULSATION )	1	1					
11	TEE – PROBE ( TRANSESOPHAGEAL ECHO )	1	1					

**ECHOCARDIOGRAPHY IMAGING SYSTEM WITH STAND .ACCESSORIES WITH 4-D FACILITY**

**ITEM NO: 1**

Specification For: <b>ECHOCARDIOGRAPHY IMAGING SYSTEM WITH STAND .ACCESSORIES WITH 4-D FACILITY</b>	<b>QTY</b>
<p><b><u>ECHOCARDIOGRAPHY IMAGING SYSTEM WITH STAND .ACCESSORIES WITH 4-D FACILITY</u></b></p> <ul style="list-style-type: none"> <li>- <b>Console:</b> Based on TruScan architecture, allows probe, servicing, or technology commonalities between different system. Digital beamformer and ultrawide bandwidth transducers produces TruData- excellent image quality, spatial and contrast resolution, Digital raw image data are incorporated within the DICOM standard which allows both data interchange based on standardized formats and comprehensive postprocessing for quantitative analysis.</li> <li>- <b>7S 3 to 7 MHz Sector Probe:</b> This wide-band multi-frequency phased array probe supports these applications: Cardiac, pediatric heart, Coronary, neonatal head, and abdominal, It provides a 15 mm aperture and a 90° field of view.</li> <li>- <b>3S Sector Comfort Scan Prob:</b> This wide band, multi-frequency, phased array probe support Cardiac applications; It has a small footprint and a 90o field of view.</li> <li>- <b>6T 4 to 8 MHz TEE Probe:</b> This wide-band multi-frequency phased array probe supports transoesophageal application.</li> <li>- <b>Bite Guard AD.16:</b> Bite guard procedure for adult TEE exams.</li> <li>- <b>Wall Rack TEE Complete.</b></li> <li>- <b>Echo Pac with Mod:</b> This integrated Echo PAC functionality with MOD allows patient and image data management on board, All echocardiographic measurements are automatically stored with protocols, templates, images, loops and reports.</li> <li>- <b>Echo Stress:</b> Echo Stress includes 2 modules – the flexible standard stress and QTVI Stress for quantification.</li> <li>- The advanced and flexible stress echo examination capabilities provide exercise and pharmacological protocol templates, The template editor allows user-configuration of existing or creation of new templates, During acquisition a reference scan is available for stress level comparison (dual screen). Echo Stress includes the option for digital continuous capturing of raw image data. Postprocessing tools include wall motion scoring.</li> <li>- QTVI Stress is based on parallel raw data acquisition of greyscale 2D and seamless tissue velocity information for further quantitative stress analysis. 3 analysis levels are provided. Uncompromised 2D enhanced by Coded Octave Tissue Imaging allows maximum control by sonographer of image data acquisition.</li> <li>- <b>Color and B&amp;W Printer.</b></li> <li>- <b>Voltage 110V-220V 60 Hz.</b></li> </ul>	<b>1</b>

**ECG MACHINE 3/6 CHANNE****ITEM NO: 2**

Specification For <b>ECG MACHINE 3/6 CHANNE</b>	<b>QTY</b>
<p style="text-align: center;"><b><u>ECG MACHINE 3/6 CHANNE</u></b></p> <ul style="list-style-type: none"> <li>- Measurement and interpretation of the resting ECG.</li> <li>- 3- Outlets for analog signals.</li> <li>- Remote start inlet (ergometry).</li> <li>- Reflective LED displays give process information on electrode faults, battery operation paper end.</li> <li>- Heart Rate: 35....240 min<sup>-1</sup></li> <li>- Leads: Einthoven, Goldberger, Wilsion, Nehb, Cabrera.</li> <li>- Sensitivity : 5, 10, 20 mm/mV</li> <li>- Chart speed: 5, 25, 50 mm/s</li> <li>- Dimensions: W x D x H 338 mm x 340 mm x 98 mm</li> <li>- Weight: 5.5 kg</li> <li>- Voltage <b>110V- 220 V 60 Hz</b></li> </ul>	<b>3</b>

**DEFIBRILLATOR/MONITOR WITH PACEMAKER, ADULT & PEDIA PADDLES.****ITEM NO: 3**

Specification For <b>Defibrillator/Monitor with pacemaker, Adult &amp;Pedia Paddles.</b>	<b>QTY</b>
<p><b><u>DEFIBRILLATOR/MONITOR WITH PACEMAKER, ADULT &amp; PEDIA PADDLES.</u></b></p> <ul style="list-style-type: none"> <li>- External &amp; internal defibrillation: Synchronous and asynchronous</li> <li>- Form of shock: Monophasic, attenuated sine half-wave</li> <li>- Energy levels: 2, 5, 7, 10, 20, 30, 50, 100, 150 ,200 ,300 ,360 joule, Aautosequence</li> <li>- Energy Selection: Rotating knob on unit</li> <li>- Typical charging time to 360J: 8 second</li> <li>- Defibrillation: Via Paddles or combined defibrillation/pacemaker electrodes</li> <li>- ECG Derivation: Via 3-lead (I, II, III, aVL, aVR, aVF, V) ECG cable or via combined defibrillation/pacemaker electrodes, with 12-leads</li> <li>- Analogue output: One Volt</li> <li>- Printer: 50 mm thermo-printer with 2 registration channels an 25mm/sec feed rate</li> <li>- Operating modes: Demand and fix</li> <li>- Pulse frequency: 30 to 180P/min</li> <li>- Pulsed current: 0 to 200 mA</li> <li>- Pulse width: 40 ms; 20 ms from 150 P/min</li> <li>- Pulse corm: Monophasic rectangular pulse</li> <li>- SpO<sub>2</sub> Saturation display: in 1% intervals from 0% to 100%</li> <li>- Format: Plethsmogram (curve format)</li> <li>- Single quality: C-Lock ECG Synchronization.</li> <li>- Monitor Display: LCD display, 2-channel backlit, monitor can be tilted by up to 180°</li> <li>- Resolution: 115 mm x 86 mm (620x240 pixels)</li> <li>- Dimension : W x H x D 432 mm x 172 mm x 377 mm</li> <li>- Power supply: battery and mains, operates with 12V D.C</li> <li>- Voltage <b>110V- 220 V 60 Hz</b></li> </ul>	<b>3</b>

**HOLTER MONITORING & REVIEW STATION WITH ABULATORY BP RECORDING.****ITEM NO: 4**

Specification For: <b>Hotler Monitoring &amp; review station with Abulatory BP Recording</b>	<b>QTY</b>
<p><b><u>HOLTER MONITORING &amp; REVIEW STATION WITH ABULATORY BP RECORDING.</u></b></p> <ul style="list-style-type: none"> <li>- Identify onset and offset of difficult-to-detect afibrillation and aflutter and quantify each event</li> <li>- Obtain an understanding of pacemaker function with software state-of-art pacemaker detection capabilities</li> <li>- Measure the duration and magnitude of ST depressions.</li> <li>- <b>Workstation Specification:</b></li> <li>- Processor Type: Intel* Pentium III coppermine, processor speed: 1 GHz, Front Side Bus: 133 MHz, Cache Type and Size: 256 kb onDie, RAM: 128 MB PC133, Memory type: DIMM SDRAM PC133, Controller: EIDE Dual UltraDMA/100/66/33, Hard Drive: 20 GB, 1.44 MB diskette drive, Storage: 48x CDROM, Graphics Memory: 4 MB AGP, Operating system: Windows NT4, Dimension: 435x180x430 mm</li> <li>- <b>Monitor Specification:</b></li> <li>- 21" viewable Display resolution: 1800x1440, Dimension: 413x410x424</li> <li>- <b>Environmental Specification:</b></li> <li>- Operating Temperature: 10°C to 35°C, Storage Temperature:-20°C to 60°C, Relative Humidity: 20% to 80% non-condensing</li> <li>- Voltage <b>110V- 220 V 60 Hz</b></li> </ul>	<b>1</b>

**STRESS TEST SYSTEM WITH TREADMILL (wireless connection)****ITEM NO: 5**

Specification For. <b>STRESS TEST SYSTEM WITH TREADMILL (wireless connection)</b>	<b>QTY</b>
<p><b><u>STRESS TEST SYSTEM WITH TREADMILL (wireless connection)</u></b></p> <ul style="list-style-type: none"> <li>- <b>Instrument type:</b> Cardiac stress testing system with 14 channel acquisition and programmable lead configurations, Pentium based, NT technology platform and hard drive storage deliver local and Catalyst MUSE database access.</li> <li>- <b>Signal Processing:</b> ECG analysis frequency: 500Hz, ST measurements: ST amplitudes, slope, integral, index, ST/HR slope, ST/HR loops, ST/HR index up to 15 leads.</li> <li>- <b>Data Acquisition:</b> Technology: Active, "Type BF" floating isolated powered 14 channel acquisition module with built-in lead-fail detection and lead prep impedance measurement.</li> <li>- <b>Display:</b> Display type: High resolution, color raster-written CRT, Display resolution: Minimum 1024x768x70 Hz refresh, Display size: 17" diagonal SVGA, Monitored leads: 3, 6, or 12, Display data: ST scan/median complexes, arrhythmias, ventricular ectopic/min counter, 3 to 15 waveforms, lead check torso and 12 leads, waterfall display, trends, tabular summary, stored ECG strip, interpretation, time-of-day clock, patient name, warning messages and prompts.</li> <li>- <b>Environmental specifications:</b> Operating Conditions: Temperature: +10 to 40°C Humidity: 20 to 95% RH non-condensing, Pressure: 700 to 1060 Kps, Physical: Height: 125 cm, Width: 62 cm, Depth: 75 cm, Weight: 68 kg, Interface included: Acquisition module, 10 Mbps Ethernet MUSE compatible, 6 serial ports (COM 1-2, COM A-D) – treadmill, BP, ergometer, SpO<sub>2</sub> 4 analog and 1 TTL, PC-compatible for data storage, CD-R/W drive.</li> <li>- Voltage <b>110V- 220V 60 Hz</b></li> <li>- <b>Treadmill:</b> Maximum rated load: 204 kg, Belt speed range: 0 to 13.5 mph at 60/50 Hz continuously variable; zero mph startup, Drive motor: 3.0 hp, Elevation motor: 1/10<sup>th</sup> hp, Elevation range: 0.0 to 25.0% grade, continuously variable maximum leakage current: 100uA, chassis to ground. Weight 181.4 kg, Walking area: 45.7 cm x 152.4 cm, Floor space 73.7 cm x 195.6 cm, Walking surface height: 14.0 cm, Handrail height above walking surface front: 101.6 cm, Side: maximum 88.9 cm descending at a 5o angle to 81.3 cm.</li> <li>- Voltage <b>110V- 220V 60 Hz</b></li> <li>- <b>Feature:</b> <u>Patient Safety:</u> 152 cm walking surface, Two stopping modes, Standard full handrail set, Standard emergency stop switch, Starts from 0 km/hr, <u>Versatility:</u> 0 to 22.5 km/hr speed range, Weight capacity of 450 182 kg, 0 to 25 percent grade range, <u>Reliability:</u> 3 PS-motor, Self-calibrating for speed and grade, Digital control insures precise speed and grade control.</li> </ul>	<b>1</b>

**BIPLANE CARDIOLOGICAL ANGIOGRAPHY SYSTEM FOR CARDIOLOGICAL  
DIAGNOSTICS AND INTERVENTIONAL PROCEDURES, INCLUDING A DIGITAL IMAGING  
CHAIN**

**ITEM NO: 6**

Specification For. <b>BIPLANE CARDIOLOGICAL ANGIOGRAPHY SYSTEM FOR CARDIOLOGICAL DIAGNOSTICS AND INTERVENTIONAL PROCEDURES, INCLUDING A DIGITAL IMAGING CHAIN</b>	<b>QTY</b>
<b>BIPLANE CARDIOLOGICAL ANGIOGRAPHY SYSTEM FOR CARDIOLOGICAL DIAGNOSTICS AND INTERVENTIONAL PROCEDURES, INCLUDING A DIGITAL IMAGING CHAIN</b>	<b>1</b>

**AMBULARY ASP MONITOR SYSTEM + 2 RECORDS**

**ITEM NO: 7**

Specification For: <b>AMBULARY ASP MONITOR SYSTEM + 2 RECORDS</b>	<b>QTY</b>
<b><u>AMBULARY ASP MONITOR SYSTEM + 2 RECORDS</u></b>	<b>1</b>

**PORTABLE ECHOCARDIOGRAPHY**

**ITEM NO: 8**

Specification For: <b>PORTABLE ECHOCARDIOGRAPHY</b>	<b>QTY</b>
<b><u>PORTABLE ECHOCARDIOGRAPHY</u></b>	<b>1</b>

**INTRASTIC BALLON PUMB**

**ITEM NO: 9**

Specification For: <b>INTRASTIC BALLON PUMB</b>	<b>QTY</b>
<b><u>INTRASTIC BALLON PUMB</u></b>	<b>1</b>

**E.E.C.P ( INHANCED EXTERNAL COUNTER PULSATION )****ITEM NO: 10**

Specification For: <b>E.E.C.P ( INHANCED EXTERNAL COUNTER PULSATION )</b>	<b>QTY</b>
<b>E.E.C.P ( INHANCED EXTERNAL COUNTER PULSATION )</b>	<b>1</b>

**TEE – PROBE ( TRANSESOPHAGEAL ECHO )****ITEM NO: 11**

Specification For: <b>E TEE – PROBE ( TRANSESOPHAGEAL ECHO )</b>	<b>QTY</b>
<b><u>TEE – PROBE ( TRANSESOPHAGEAL ECHO )</u></b>	<b>1</b>