

**NO.G.17011/1/2016-HFW.**  
**GOVERNMENT OF MIZORAM**  
**HEALTH & FAMILY WELFARE DEPARTMENT**

Dated Aizawl, the 10<sup>th</sup> February, 2017

**SHORT TENDER NOTICE**

Sealed Tenders are hereby invited on behalf of the Governor of Mizoram from reputed and bonafide Manufacturers or their authorized dealers, for **Short Tender for Purchase of Hospital Instruments for District Hospitals within Mizoram under NEDP Project** which will be received by the Director, Hospital & Medical Education, Dinthar, Aizawl on or before 21.2.2017 **upto 12:00 Noon** under the terms and conditions laid down below. Quotations are to be opened by Director, Hospital & Medical Education or his authorized representatives at 1:00 **PM** on the same day. The Tenderers or their representatives may also be present at the time of opening of the Quotations, if they so desire.

**TERMS & CONDITIONS**

1. Tenders submitted by Authorized dealers should attach certificate of Authorization or Distributorship or Dealership as the case may be from the concerned Manufacturers. Duly attested by a Gazetted Officer or Notary. Original Certificate should be produced at the time of opening, if demanded.
2. Tender should be accompanied by ***Earnest Money 3% in case of Tribal tenderer and 5% in case of non-tribal to the quoted amount*** in the form of Deposit at Call/ Bank Quarantee/ Fixed Deposit in original at the Bank from any Nationalized Bank of India or Postal Saving Certificate duly pledged in favor of Director, Hospital & Medical Education, Mizoram ***duly signed and stamped by the tenderer at the back side of the draft/deposit.***
3. Tenders should be submitted in duplicate marked "Original" and "Duplicate" on the cover envelope. The cover of the tenders should be superscribed as ***"Short Tender for Purchase of Hospital Instruments for District Hospitals within Mizoram under NEDP Project"*** addressed to Director, Hospital & Medical Education, Dinthar, Aizawl and should clearly indicate full postal address of the tenderer.
4. **a) Quoted rates in terms of Indian Rupees will be considered including Mizoram Value added Tax (MVAT) @ 5% / Mizoram Entry Tax (MET) @ 2% and shall be clearly mentioned whether inclusive of all taxes and duties.** If there are more than one brand, the separate rates for such brands with specific details shall also be mentioned. Hence EMD will be calculated from single cost only from one Item.  
**b) All pages of the tender papers shall be printed, signed, stamped and dated; hand written quotations shall not be entertained. Any page or pages not signed, stamped and dated will be marked violated clause at the time of opening of tender. Corrections, if any, shall be initialed, stamped and dated.**

5. Tenderers must enclose detail specifications of the Instruments. They must also enclose relevant documents including catalogue/literature of the quoted items.
6. Tenders shall be submitted in the prescribed form only, and shall be submitted in both soft and hard copy.
7. Tender must be accompanied by the following documents –
  - a) For Tribal and Non-tribal tenderer, up to date **original** Tax Clearance Certificate issued by concerned Department.
  - b) For Tribal tenderer, Photo copy of MVAT Registration Certificate duly attested by a Gazetted Officer. Original Certificates shall be produced at the time of opening of the tenders/ quotations, if demanded.
  - c) For Tribal tenderer, Photo copy of Scheduled Tribe Certificate duly attested by a Gazetted Officer or Notary. Original Certificates shall be produced at the time of opening of the tenders/ quotations, if demanded.
  - d) For non-tribal tenderer, photocopy of valid sales Tax/VAT Registration Certificate duly attested by a Gazetted Officer or Notary. Original Certificates shall be produced at the time of opening of the tenders/ quotations, if demanded.
  - e) Non-tribal tenderers shall affix a Non- Judicial Adhesive Stamp worth at least Rs.7.50.
  - f) For non-tribal tenderer, Professional tax clearance certificate issued by Taxation Deptt., Govt. of Mizoram shall be produce before delivering payment.
8. The tenderer shall submit Notorized Photo copy of ISI certificate/ISO 13485/14001/9001.
9. Warranty period should be mentioned clearly and availability of After-Sale-Services facilities during warranty period.
10. Tenderer should quote their rates for F.O.R Destination i.e. All District Hospitals within Mizoram.
11. Once the rate is accepted and communicated to the successful firm, the same will remain valid during the validity period of the agreement with the approved supplier. No price escalation will be permissible during the validity period, which is normally for a period of 12 months and is extendable, if mutually agreed upon by both the parties i.e. Director, Hospital & Medical Education and concerned approved supplier, subject to recommendation of the State Purchase Advisory Board or the Departmental Purchase Advisory Board, as the case may be.
12. A successful firm will have to supply the materials within the period fixed by the Department/Authority. If the supply cannot be made within the stipulated period without any intimation, the Department has the right to procure the materials from any other sources, without assigning any reason thereof.
13. A successful firm should furnish Security Deposit of 5% of the value of the supply before issue of supply order in the form of Demand Draft/Fixed Deposit in any Nationalized Bank of India or Postal Saving Certificate, as the case may be, pledged in favor of Director, Hospital & Medical Education, Government of Mizoram **duly signed and stamped by the tenderer at the back side of the draft/deposit.**

14. A successful firm should execute an appropriate Deeds of Agreement within 30 days from the date of issue of acceptance of their quoted rates failing which their quoted rate will be treated as invalid.
15. The undersigned shall not be bound to accept the lowest rate or any of the tenders and reserves the right to accept or reject any tenders without assigning any reasons thereof.
16. Late/delayed tenders will not be entertained. Certificates other than those stated in the above clauses should not be attached. Any other/further clarifications in connection with submission of the tender may be made from the office of Director, Hospital & Medical Education, Mizoram during office hours on all working days.
17. In case of any legal disputes/litigations arising out of this Tender Notice or its terms, the Courts of Law at Aizawl only shall have jurisdiction to adjudicate the same.
18. All payments will be made only after the materials are received in full and in good condition and after completion of the installation and satisfactory commissioning.
19. Firms or individuals who attempt to negotiate/campaign, direct or indirect, on the part of tender with the authority to whom he has submitted the Tender or the authority who is competent to accept, shall be excluded from consideration, if proved.

Sd/-LALRINLIANA FANAI  
Commissioner & Secretary,  
Government of Mizoram,  
Health & Family Welfare Department.

Memo No. G.17011/1/2016-HFW: Dated Aizawl, the 10February,2017  
Copy to :

1. P.S to Minister, H & F W Deptt., for favour of information.
2. The Principal Director, H & FW Deptt., Mizoram for kind information
3. The Director, Hospital & Medical Education, Mizoram, Aizawl.
4. The Dy. Director, Health Services, Central Medical Store, Aizawl

Sd/-LALSANGPUII HMAR  
Under Secretary to the Govt. of Mizoram,  
Health & Family Welfare Department,  
Mizoram : Aizawl.

**FOR CIVIL HOSPITAL AIZAWL**

Sl. No.	Items	Detailed specification	Qty.	Unit Rate	Rate in word
1	500KVA Silent D.G Set		2		
2	<p><b>Digital X-Ray Machine 500 mA</b>            A High powered X-Ray Unit for general radiography with digital flat panel technology to perform whole body radiography. The system should be capable of both erect and supine radiological examinations. The unit should have the following minimum specifications:</p> <p><i>The unit should comprise of the following:</i></p> <ul style="list-style-type: none"> <li>• Single Flat Panel Detectors for vertical and table exposures</li> <li>• Generator</li> <li>• X-Ray Tube and Collimator</li> <li>• X-Ray Table</li> <li>• Wall Stand</li> <li>• Workstation Server</li> <li>• Regulatory Approval</li> <li>• Flat Panel Detector :</li> </ul> <p>The detectors should be able to do all routine Radiography examinations. It should have the following features. The flat panel detector should be of proven technology</p> <ul style="list-style-type: none"> <li>• The detector should have Automatic Exposure Detection (AED)</li> <li>• Image matrix size at least 2.4k x 3k</li> <li>• Minimum pixel size should be 140 micron or less.</li> <li>• Preview time after exposure 5 sec or less.</li> <li>• Spatial Resolution of 3.5lp/mm or better.</li> <li>• Modality workstation software with direct registration facility for the CPU to be attached to main console for availability of multiple patient entries.</li> </ul> <p><b>X-Ray Tube:</b></p> <ul style="list-style-type: none"> <li>➤ The X-Ray Tube should be rotating anode high speed, compatible with the generator and have a dual focus.</li> </ul> <p>The Focal spots should be of the following sizes:</p> <ul style="list-style-type: none"> <li>• Large Focus</li> <li>• Small Focus</li> </ul> <ul style="list-style-type: none"> <li>➤ Tube with Anode heat storage capacity of 300KHU or more.</li> <li>➤ Tube protection against overload should be available.</li> </ul> <p><b>X-Ray Table:</b></p> <ul style="list-style-type: none"> <li>➤ Height adjustable fixed table with four way floating table top</li> <li>➤ Auto tracking should be offered on the table</li> </ul>		1		

Sl. No.	Items	Detailed specification	Qty.	Unit Rate	Rate in word
	<p>for Longitudinal tracking of detector with longitudinal travel and rotation of tube.</p> <ul style="list-style-type: none"> <li>➤ The table should have an anti-scatter carbon fiber interleaved grid. The grid should be carbon fiber interleaved.</li> </ul> <p><b>Wall Stand:</b></p> <ul style="list-style-type: none"> <li>➤ Counter balanced, height adjustable vertical Bucky with a digital flat panel detector.</li> <li>➤ Bucky should have a removable grid.</li> <li>➤ It should have automatic grid sensing capability to select appropriate grid for each anatomical region.</li> </ul> <p><b>Operating (Acquisition) Station (Main Console):</b></p> <ul style="list-style-type: none"> <li>➤ PC based server / workstation must be an OEM for management of Images/ Studies</li> <li>➤ The Processing server/Console PC should have controls for exposure parameter as well as movement of the system independently for the tube, detector and table and jointly as a unit.</li> <li>➤ This Server must provide display of acquired images with a greater detail of demographics, like patient / study listing etc. for easy access.</li> <li>➤ This server must be provided with a High Quality monitor.</li> <li>➤ The main Console PC must be of reputed brands.</li> <li>➤ This sever must provide full range of post processing features like Geometric Corrections, Window / Level, Algorithms, Annotations such as markers , predefined texts , drawing lines and geometrical shapes, measuring distances and angles, Shuttering , histograms, Zoom, Grey Scale Reversal, Indicate Grey Scale Saturation Level.</li> <li>➤ Scoliosis measurement, leg length difference measurement tools must be provided. The console should also have the functionality/tool to correct radiographic magnification on the image.</li> <li>➤ The console should have automatic program to indicate over /under exposure visually in the pre view screen.</li> <li>➤ This terminal must provide a full-fledged (DICOM) printing. Should be able to print multiple formats of a patient study on a film. It must be able to print a True Size image.</li> <li>➤ Should be able to send DICOM images to a DICOM viewing station / PACS and should be able to connect to HIS/RIS for DMWL.</li> </ul>				

Sl. No.	Items	Detailed specification	Qnty.	Unit Rate	Rate in word
	<ul style="list-style-type: none"> <li>➤ Should be equipped with DICOM CD writer for allowing examination of a patient to be written onto a CD in DICOM format for referral purposes with inbuilt DICOM Viewer to allow viewing on any PC.</li> <li>➤ Special attention should be given to Pediatric and neonatal imaging. It should have possibility of reducing radiation dose to pediatric and neonatal exams.</li> </ul>				
3	<p><b>Colposcope machine</b></p> <p><u>Specification:</u>  Stand: Mobile stand with 4 anti static wheels with brakes  Magnichanger: 5 Step magnichanger with Magnification  Viewing Bodies:  Objective: Objective lens, fine focus control knob and sterilizable cap.  Eyepieces: Wide field adjustable eyepiece  Observation head: Ergonomic adjustable handgrips  Illumination: Fiber optic cable  Input: Universal input 100V-240V AC, 50/60Hz  Standard Accessories: Dust cover for microscope observation head and arm. Packing in sturdy packing box with power cord, instruction manual and installation kit.</p>		1		
4	Hydraulic Operation Table		1		
5	<p><b>C-Arm machine</b></p> <p>It is well suited for intraoperative use in a multitude of clinical fields, e.g., in pain management, orthopedic, trauma and spine surgery.</p> <ul style="list-style-type: none"> <li>• Precise imaging and excellent visualization</li> <li>• Distinctive design and user-friendly operation</li> <li>• Easy integration into clinical workflows</li> <li>• Optimal flexibility in data handling</li> <li>• Truly digital navigation</li> <li>• Easy integration into clinical workflows</li> </ul> <p>Dose-saving features</p>		1		
6	<p><b>ICU Ventilator</b></p> <p><u>Specifications :</u></p> <ul style="list-style-type: none"> <li>• Suitable for use in adult and paediatric patients (preferable neonatal also)</li> <li>• Delicated paediatric, adult and neonatal (optional) modes</li> <li>• Ventilation should be possible using both volume and pressure controlled modes.</li> <li>• Both invasive and non-invasive ventilation modes to be present</li> <li>• Built in color screen with touch screen facility displaying pressure, flow and volume curves with numerical readings</li> <li>• Should have a pneumatic nebulizer</li> <li>• Different modes of ventilation to be present</li> </ul>		4		

Sl. No.	Items	Detailed specification	Qty.	Unit Rate	Rate in word
	<ul style="list-style-type: none"> <li>➤ Volume control – control, Assist control, SIMU</li> <li>➤ CPAP in both volume and pressure controlled ventilation</li> <li>• Should have the following settings for volume and pressure controlled ventilation (in approximation) <ul style="list-style-type: none"> <li>➤ Tidal volume : 20 – 2000ml</li> </ul> </li> <li>• Should have user selectable alarms for the following <ul style="list-style-type: none"> <li>➤ High/low Pressure</li> <li>➤ High/low Minute ventilation</li> <li>➤ High Rate</li> <li>➤ High Tidal Volume</li> <li>➤ High/low ETCO<sub>2</sub> (optional)</li> <li>➤ Apnoea</li> <li>➤ High/low O<sub>2</sub></li> <li>➤ Low PEEP</li> <li>➤ Oxygen line failure</li> <li>➤ Technical error</li> </ul> </li> <li>• Should be supplied with the following ( One No. each) <ul style="list-style-type: none"> <li>➤ Modular corrosion free Trolley</li> <li>➤ Oxygen connecting pipe</li> <li>➤ Pneumatic nebulizer</li> <li>➤ NIV Mask</li> <li>➤ Flow sensor</li> <li>➤ Test lung</li> <li>➤ Instruction Manual</li> </ul> </li> </ul>				
7	<p><b>Haemodialysis Machine</b></p> <p><i>Parameters &amp; Technical Specification:</i></p> <ul style="list-style-type: none"> <li>• Acetate, Liquid Bicarbonate Dialysis</li> <li>• Provision for Dry Powder / Bicart Dialysis</li> <li>• Variable Dialysate Flow rate:300-700 ml/min by steps Of 20 ml/min.</li> <li>• Dialysate conductivity: Acetate &amp; Bicarbonate range- Na+ 130 ~ 160 mmol /L.</li> <li>• Principle of Conductivity mixing - Feed Back control.</li> <li>• Sodium, UF Profiling Modules. (Presetable &amp; Changeable).</li> <li>• Bicarb Profiling - for new patient or severe acidosis patient.</li> <li>• Arterial &amp; Venous Pressure : -700 to +750 mmHg.</li> <li>• Automatic switch from isolated UF to diffusion.</li> <li>• UF Control Volumetric With UFR: 0 -4.00 Liters / Hr &amp; Accuracy ± 50 ml/h.</li> <li>• Volume Control Mode with Sequential UF Facility.</li> <li>• Automatic Programmable Rinsing and Cleaning.</li> <li>• Facility for Assisted Priming.</li> <li>• Blood Leak Detector : Infrared light.</li> <li>• Blood Pump Control: 0 and 20 ~ 500 ml./min.</li> <li>• Air bubble detector: Ultrasonic sensor min.</li> <li>• Heparin syringe pump facility with flow rate 0to</li> </ul>		4		

Sl. No.	Items	Detailed specification	Qty.	Unit Rate	Rate in word
	10ml/h with programmable stop time. <ul style="list-style-type: none"> <li>• Inbuilt Battery backup for minimum 20 minutes for blood pump and monitor.</li> <li>• Diascan for non-invasive fully automated on-line feature providing real-time clearance Kt/V forecasting to understand treatment adequacy and take corrective measures in real time easy method with included Watson formula to enter patient volume to get urea distribution volume.</li> <li>• Electric power-AC 230V/110 V <math>\pm</math>10% 50-60 Hz power.</li> <li>• Consumption Max:2025 W at 230V.</li> <li>• One button – one function user interface.</li> </ul>				
8	<b>R.O Plant</b> <i>Treatment scheme :</i> <ul style="list-style-type: none"> <li>• Raw water feed pump (1 w +1 s)</li> <li>• Pressure Sand Filter</li> <li>• Activated Carbon Filter-I</li> <li>• Micron cartridge filtration (5 Micron)</li> <li>• RO System (I st pass) -2000 lph</li> <li>• RO Water Storage tank</li> <li>• Feed pump 2<sup>nd</sup>RO System (II nd pass) (1 w + 1 s)</li> <li>• 2<sup>nd</sup> RO System</li> <li>• RO-II water storage tanks</li> <li>• Transfer Pump</li> <li>• UV System</li> </ul> Post Micron Filters (0.2 Micron)		2		
9	Flexible Bronchoscope (Adult)		1		
10	<b>Ultrasound Machine</b> <i>Main Features:</i> <ul style="list-style-type: none"> <li>• LED monitor with non-interlaced display</li> <li>• Control Panel Lifting Mechanism</li> <li>• Real time channel 2D gray – scanned imaging with multi-beam receiving.</li> <li>• 1152 Channel Digital Beam forming with:</li> <li>• Dynamic Focus, Dynamic Aperture, Dynamic Apodization</li> <li>• Synthetic Aperture Control</li> <li>• Full Spectrum Imaging</li> <li>• Motion mode (M-mode)</li> <li>• Color motion mode (Color M-mode)</li> <li>• Pulsed wave (PW) spectral Doppler</li> <li>• Color Doppler (C-mode)</li> <li>• Power Doppler (PD-mode)</li> <li>• Tissue Harmonic Imaging</li> <li>• Pulse Inversion Harmonic Imaging</li> <li>• Extreme High Dynamic Range</li> <li>• Trapezoidal Imaging</li> <li>• Combined modes</li> <li>• 2D/M, 2D/PWD, 2D/CD, 2D/PD, 2D/CD/ PW, 2D/PD/PW, 2D/CD/Color M</li> <li>• Internally Mounted Hard Disc Drive (HDD) (160</li> </ul>		1		



Sl. No.	Items	Detailed specification	Qty.	Unit Rate	Rate in word
	GB) • Various Measurement Packages <b>Applications:</b> • General • Standby mode (Hibernation mode) • Post Gain Control • Peripheral output device support • High Resolution Zoom (Read/Write)				
11	Orthopaedic OT Table with Fracture Table attachment		1		
12	C-Arm Image Intensifier		1		
13	Instruments for Spinal Surgery set		1		
14	Instruments for Bipolar Modular HIP Hemiarthroplasty set		1		
15	Instruments and Implants for DHS/DCS		1		
16	Instruments and Implants for External Fixation		1		
17	Instruments and Implants for Tibia Interlocking Nail set		1		
18	Bosch Battery Drill		1		
19	Oxygen 'D' Type Cylinder		100		
20	Oxygen 'B' type Cylinders		100		
21	Oxygen Flow Meter/Regulator		65		
22	Anaesthetic Machine with Ventilator and Monitor		2		

**FOR CIVIL HOSPITAL LUNGLEI**

Sl. No.	Items	Detailed specification	Qty.	Unit Rate	Rate in word
1	500KVA Silent D.G Set		1		
2	<p><b>Digital X-Ray Machine 500 mA</b>                      A High powered X-Ray Unit for general radiography with digital flat panel technology to perform whole body radiography. The system should be capable of both erect and supine radiological examinations. The unit should have the following minimum specifications:  <u>The unit should comprise of the following:</u></p> <ul style="list-style-type: none"> <li>• Single Flat Panel Detectors for vertical and table exposures</li> <li>• Generator</li> <li>• X-Ray Tube and Collimator</li> <li>• X-Ray Table</li> <li>• Wall Stand</li> <li>• Workstation Server</li> <li>• Regulatory Approval</li> <li>• Flat Panel Detector :</li> </ul> <p>The detectors should be able to do all routine Radiography examinations. It should have the following features. The flat panel detector should be of proven technology</p> <ul style="list-style-type: none"> <li>• The detector should have Automatic Exposure Detection (AED)</li> <li>• Image matrix size at least 2.4k x 3k</li> <li>• Minimum pixel size should be 140 micron or less.</li> <li>• Preview time after exposure 5 sec or less.</li> <li>• Spatial Resolution of 3.5lp/mm or better.</li> <li>• Modality workstation software with direct registration facility for the CPU to be attached to main console for availability of multiple patient entries.</li> </ul> <p><b>X-Ray Tube:</b></p> <ul style="list-style-type: none"> <li>➤ The X-Ray Tube should be rotating anode high speed, compatible with the generator and have a dual focus.</li> </ul> <p>The Focal spots should be of the following sizes:</p> <ul style="list-style-type: none"> <li>• Large Focus</li> <li>• Small Focus</li> </ul> <ul style="list-style-type: none"> <li>➤ Tube with Anode heat storage capacity of 300KHU or more.</li> <li>➤ Tube protection against overload should be available.</li> </ul> <p><b>X-Ray Table:</b></p> <ul style="list-style-type: none"> <li>➤ Height adjustable fixed table with four way floating table top</li> <li>➤ Auto tracking should be offered on the table for Longitudinal tracking of detector with longitudinal travel and rotation of</li> </ul>		1		

Sl. No.	Items	Detailed specification	Qty.	Unit Rate	Rate in word
	<p>tube.</p> <ul style="list-style-type: none"> <li>➤ The table should have an anti-scatter carbon fiber interleaved grid. The grid should be carbon fiber interleaved.</li> </ul> <p><b>Wall Stand:</b></p> <ul style="list-style-type: none"> <li>➤ Counter balanced, height adjustable vertical Bucky with a digital flat panel detector.</li> <li>➤ Bucky should have a removable grid.</li> <li>➤ It should have automatic grid sensing capability to select appropriate grid for each anatomical region.</li> </ul> <p><b>Operating (Acquisition) Station (Main Console):</b></p> <ul style="list-style-type: none"> <li>➤ PC based server / workstation must be an OEM for management of Images/ Studies</li> <li>➤ The Processing server/Console PC should have controls for exposure parameter as well as movement of the system independently for the tube, detector and table and jointly as a unit.</li> <li>➤ This Server must provide display of acquired images with a greater detail of demographics, like patient / study listing etc. for easy access.</li> <li>➤ This server must be provided with a High Quality monitor.</li> <li>➤ The main Console PC must be of reputed brands.</li> <li>➤ This sever must provide full range of post processing features like Geometric Corrections, Window / Level, Algorithms, Annotations such as markers , predefined texts , drawing lines and geometrical shapes, measuring distances and angles, Shuttering , histograms, Zoom, Grey Scale Reversal, Indicate Grey Scale Saturation Level.</li> <li>➤ Scoliosis measurement, leg length difference measurement tools must be provided. The console should also have the functionality/tool to correct radiographic magnification on the image.</li> <li>➤ The console should have automatic program to indicate over /under exposure visually in the pre view screen.</li> <li>➤ This terminal must provide a full-fledged (DICOM) printing. Should be able to print multiple formats of a patient study on a film. It must be able to print a True Size image.</li> <li>➤ Should be able to send DICOM images to a DICOM viewing station / PACS and</li> </ul>				

Sl. No.	Items	Detailed specification	Qty.	Unit Rate	Rate in word
	<p>should be able to connect to HIS/RIS for DMWL.</p> <ul style="list-style-type: none"> <li>➤ Should be equipped with DICOM CD writer for allowing examination of a patient to be written onto a CD in DICOM format for referral purposes with inbuilt DICOM Viewer to allow viewing on any PC.</li> <li>➤ Special attention should be given to Pediatric and neonatal imaging. It should have possibility of reducing radiation dose to pediatric and neonatal exams.</li> </ul>				
3	<p><b>C-Arm machine</b> It is well suited for intraoperative use in a multitude of clinical fields, e.g., in pain management, orthopedic, trauma and spine surgery.</p> <ul style="list-style-type: none"> <li>• Precise imaging and excellent visualization</li> <li>• Distinctive design and user-friendly operation</li> <li>• Easy integration into clinical workflows</li> <li>• Optimal flexibility in data handling</li> <li>• Truly digital navigation</li> <li>• Easy integration into clinical workflows</li> </ul> <p>Dose-saving features</p>		1		
4	<p><b>Endoscope machine</b> <i>Specification :</i></p> <ul style="list-style-type: none"> <li>• Gastrointestinal HD Videoscope with NBI image technique</li> <li>• UPS 2KV (Offline)</li> <li>• Colonoscopy Videoscope</li> <li>• 24" full HD Monitor (1920x1080) with DVI port.</li> </ul>		1		
5	<p><b>Ultrasound Machine</b> <i>Main Features:</i></p> <ul style="list-style-type: none"> <li>• LED monitor with non-interlaced display</li> <li>• Control Panel Lifting Mechanism</li> <li>• Real time channel 2D gray – scanned imaging with multi-beam receiving.</li> <li>• 1152 Channel Digital Beam forming with:</li> <li>• Dynamic Focus, Dynamic Aperture, Dynamic Apodization</li> <li>• Synthetic Aperture Control</li> <li>• Full Spectrum Imaging</li> <li>• Motion mode (M-mode)</li> <li>• Color motion mode (Color M-mode)</li> <li>• Pulsed wave (PW) spectral Doppler</li> <li>• Color Doppler (C-mode)</li> <li>• Power Doppler (PD-mode)</li> <li>• Tissue Harmonic Imaging</li> <li>• Pulse Inversion Harmonic Imaging</li> <li>• Extreme High Dynamic Range</li> <li>• Trapezoidal Imaging</li> </ul>		1		

Sl. No.	Items	Detailed specification	Qty.	Unit Rate	Rate in word
	<ul style="list-style-type: none"> <li>• Combined modes</li> <li>• 2D/M, 2D/PWD, 2D/CD, 2D/PD, 2D/CD/ PW, 2D/PD/PW, 2D/CD/Color M</li> <li>• Internally Mounted Hard Disc Drive (HDD) (160 GB)</li> <li>• Various Measurement Packages</li> </ul> <b>Applications:</b> <ul style="list-style-type: none"> <li>• General</li> <li>• Standby mode (Hibernation mode)</li> <li>• Post Gain Control</li> <li>• Peripheral output device support</li> <li>• High Resolution Zoom (Read/Write)</li> </ul>				
6	<b>Colposcope machine</b> <u>Specification:</u> Stand: Mobile stand with 4 anti static wheels with brakes Magnichanger: 5 Step magnichanger with Magnification Viewing Bodies: Objective: Objective lens, fine focus control knob and sterilizable cap. Eyepieces: Wide field adjustable eyepiece Observation head: Ergonomic adjustable handgrips Illumination: Fiber optic cable Input: Universal input 100V-240V AC, 50/60Hz Standard Accessories: Dust cover for microscope observation head and arm. Packing in sturdy packing box with power cord, instruction manual and installation kit.		1		
7	Oxygen Concentrator		5		
8	<b>Surgical Diathermy</b> <u>Features :</u> <ul style="list-style-type: none"> <li>• Instant response technology with feedback effect as fast as 0.005 sec</li> <li>• Spray mode for better coagulation effect</li> <li>• Power efficiency rating : 98%</li> <li>• Dual monopolar activation facility</li> <li>• Bipolar cut mode</li> <li>• Recall memory facility</li> <li>• Under water cutting/coagulation facility</li> <li>• Compatible with Argon plasma coagulation system</li> </ul> <u>Standard Accessories</u> <ul style="list-style-type: none"> <li>• Monopolar foot switch</li> <li>• Electrosurgical hand switching pencil</li> <li>• Polythesive II REM patient return electrode</li> <li>• Bi-polar foot switch</li> <li>• Disposable bipolar card</li> <li>• CT forceps insulated cushioning</li> <li>• Universal active adaptor</li> </ul>		2		
9	<b>Syringe pump</b> <u>Specification</u> Function spectrum <b>Syringe selection configuration in service</b>		3		

Sl. No.	Items	Detailed specification	Qty.	Unit Rate	Rate in word
	<p><b>menu:</b> 2/3, 5, 10, 20, 30 and 50/60ml syringe; automatic recognition of syringe size. Up to 6 syringe types can be selected by menu code.</p> <p><b>Automatic calculation of the infusion rate:</b> based on volume and time pre-selection</p> <p><b>Bolus administration:</b> as long as key is pressed or choice of pre-selected volumes</p> <p><b>Stand-by-infusion pause:</b> without time limit; pre-set values remain stored</p> <p><b>Battery/rechargeable battery capacity display:</b> in h and min</p>				
10	<p><b>Defibrillator</b></p> <p><i>Features:</i></p> <ul style="list-style-type: none"> <li>• Compact</li> <li>• Optional SpO2 and CO2</li> <li>• Biphasic waveform gives more effective defibrillation at lower energy ActiBiphasic</li> <li>• Noninvasive pacing (TEC-5531)</li> <li>• Fast charging — less than 3 seconds to 150J and less than 5 seconds to 270J</li> <li>• Fast ECG recovery for immediate monitoring after defibrillation</li> </ul>		3		
11	<p><b>ECG Machine</b></p> <p><u>Specification</u></p> <ul style="list-style-type: none"> <li>• Acquisition and display of 12 leads simultaneously</li> <li>• Good/high resolution image quality on screen and on printed report</li> <li>• ECG paper speed of 5, 25 and 50 mm/s</li> <li>• Accurate analysis and measurement of rate, intervals, duration and axis.</li> <li>• Built in high resolution thermal array printer</li> <li>• Full screen preview of complete 12 lead report prior to printing</li> <li>• Alphanumeric keyboard for quick patient data entry</li> </ul> <p>Adequate memory at least 40 ECG's and additional with optional USB device</p>		1		
12	Oxygen 'D' Type Cylinder		50		
13	Oxygen 'B' type Cylinders		50		

## FOR DISTRICT HOSPITAL KOLASIB

Sl. No.	Items	Detailed specification	Qty.	Unit Rate	Rate in word
1	<p><b>Endoscope machine</b>  <i>Specification :</i></p> <ul style="list-style-type: none"> <li>• Gastrointestinal HD Videoscope with NBI image technique</li> <li>• UPS 2KV (Offline)</li> <li>• Colonoscopy Videoscope</li> <li>• 24" full HD Monitor (1920x1080) with DVI port.</li> </ul>		1		
2	<p><b>Colposcope machine</b>  <i>Specification:</i>                      Stand: Mobile stand with 4 anti static wheels with brakes                      Magnichanger: 5 Step magnichanger with Magnification                      Viewing Bodies:                      Objective: Objective lens, fine focus control knob and sterilizable cap.                      Eyepieces: Wide field adjustable eyepiece                      Observation head: Ergonomic adjustable handgrips                      Illumination: Fiber optic cable                      Input: Universal input 100V-240V AC, 50/60Hz                      Standard Accessories: Dust cover for microscope observation head and arm.                      Packing in sturdy packing box with power cord, instruction manual and installation kit.</p>		1		
3	<b>Oxygen Concentrator</b>		4		
4	<b>Donor Couch</b>		3		
5	<p><b>Binocular Microscope</b>                      Standard set complete with in-built 6V20W halogen light illuminator, with anti-fungus Achromatic Objectives 4x, 10x 40x, (Spring) &amp; 100x (Oil, Spring), paired eyepieces wide field 10x in thermo Cole packing.  <b>Specifications:</b></p> <ul style="list-style-type: none"> <li>• Binocular observation head model, inclination 45 degree, interpupillary distance adjustment range 53-75 mm,</li> <li>• Eyepiece: 10x widefield, antifungus coated.</li> <li>• Built-in 6V, 20W illuminator base with halogen lamp (with one spare). Plano-concave mirror unit. 8 cc immersion oil. Plastic cover. Instruction manual. In thermo cole packing.</li> </ul>		4		
6	<b>B.P Instruments (Digital)</b>		4		
7	<b>Weighing Machine</b>		2		
8	<b>Needle Destroyer</b>		5		

Sl. No.	Items	Detailed specification	Qty.	Unit Rate	Rate in word
9	Centrifuge Machine		2		
10	Blood Bank Reprigerator		1		
11	Bilirubinometer		1		
12	Post Mortem Set (Autopsy box)		2		
13	Phototherapy		2		
14	Diathermy		1		
15	Tube Sealer		1		
16	Deep Freezer -20C		1		
17	Cold box		2		
18	<p><b>X-Ray Machine, 300 mA</b>  <b>300mA, 125KVP X-Ray MACHINE</b> with rotating anode X-Ray tube, Floor to ceiling tube stand and Horizontal Bucky table)</p> <p><b>Technical Specification:</b>  <b>X-RAY MACHINE:</b>  300mA-125KVP, full wave solid state silicon rectified X-Ray generator for radiography suitable for single tube operation.  <b>POWER OUTPUT</b>  <b>RADIOGRAPHY KV RANGE</b>  <b>mA RATING:</b>  Small Focus  Large Focus  <b>TIMER:</b> Solid state electronic timer</p> <p><b>CONTROL PANEL:</b></p> <ul style="list-style-type: none"> <li>• Push to on and off switches.</li> <li>• Voltmeter, mA meter.</li> <li>• Digital display of active KVP and mAs.</li> <li>• Major and minor KV selector.</li> <li>• Voltage compensator.</li> <li>• Tube overload indicator and x-ray indicator.</li> <li>• For tube safety, quick trip-overload circuit breaker and inbuilt electronic system to block factors beyond specified tube rating.</li> <li>• Automatic safety system to block unwanted exposure factors beyond tube rating.</li> <li>• A Hand switch with flexible long cord enables the operator to keep away from the radiation area during exposure.</li> </ul> <p><b>COLLIMATOR:</b> One manual collimator</p> <p><b>X-RAY TUBE:</b>  1No. Dual focus rotating anode X-Ray tube  Small focus</p>		1		



Sl. No.	Items	Detailed specification	Qty.	Unit Rate	Rate in word
	<p>Large Focus Anode Heat Storage Capacity</p> <p><b>HV CABLE:</b> One pair of high voltage cables of suitable length with straight sleeveings.</p> <p><b>TUBE STAND:</b> Floor to ceiling stand and with counter balanced tube head (rotatable <math>\pm 180</math> degree) 360 degree rotatable; mounted on floor ceiling rails for convenient movements</p> <p><b>HORIZONTAL TABLE:</b> Horizontal bucky table for over couch and bucky radiography of various body parts. The table consists of motorized reciprocating bucky with grid. The Bucky travels the entire length of the table and can be locked at any desired position by a lock. The tabletop is made of low radiation absorption, waterproof material.</p>				
19	<p><b>ECG Machine</b> <u>Specification</u></p> <ul style="list-style-type: none"> <li>• Acquisition and display of 12 leads simultaneously</li> <li>• Good/high resolution image quality on screen and on printed report</li> <li>• ECG paper speed of 5, 25 and 50 mm/s</li> <li>• Accurate analysis and measurement of rate, intervals, duration and axis.</li> <li>• Built in high resolution thermal array printer</li> <li>• Full screen preview of complete 12 lead report prior to printing</li> <li>• Alphanumeric keyboard for quick patient data entry</li> </ul> <p>Adequate memory at least 40 ECG's and additional with optional USB device</p>		1		
20	Incubator (Baby)		1		
21	Digital Analytic Balance		1		
22	Dressing Trolley/Stretcher on Trolley		5		

**FOR DISTRICT HOSPITAL CHAMPHAI**

Sl. No.	Items	Detailed specification	Qty.	Unit Rate	Rate in word
1	<p><b>Endoscope machine</b>  <i>Specification :</i></p> <ul style="list-style-type: none"> <li>• Gastrointestinal HD Videoscope with NBI image technique</li> <li>• UPS 2KV (Offline)</li> <li>• Colonoscopy Videoscope</li> <li>• 24" full HD Monitor (1920x1080) with DVI port.</li> </ul>		1		
2	<p><b>Ultrasound Machine</b>  <i>Main Features:</i></p> <ul style="list-style-type: none"> <li>• LED monitor with non-interlaced display</li> <li>• Control Panel Lifting Mechanism</li> <li>• Real time channel 2D gray – scanned imaging with multi-beam receiving.</li> <li>• 1152 Channel Digital Beam forming with:</li> <li>• Dynamic Focus, Dynamic Aperture, Dynamic Apodization</li> <li>• Synthetic Aperture Control</li> <li>• Full Spectrum Imaging</li> <li>• Motion mode (M-mode)</li> <li>• Color motion mode (Color M-mode)</li> <li>• Pulsed wave (PW) spectral Doppler</li> <li>• Color Doppler (C-mode)</li> <li>• Power Doppler (PD-mode)</li> <li>• Tissue Harmonic Imaging</li> <li>• Pulse Inversion Harmonic Imaging</li> <li>• Extreme High Dynamic Range</li> <li>• Trapezoidal Imaging</li> <li>• Combined modes</li> <li>• 2D/M, 2D/PWD, 2D/CD, 2D/PD, 2D/CD/PW, 2D/PD/PW, 2D/CD/Color M</li> <li>• Internally Mounted Hard Disc Drive (HDD) (160 GB)</li> <li>• Various Measurement Packages</li> </ul> <p><b>Applications:</b></p> <ul style="list-style-type: none"> <li>• General</li> <li>• Standby mode (Hibernation mode)</li> <li>• Post Gain Control</li> <li>• Peripheral output device support</li> <li>High Resolution Zoom (Read/Write)</li> </ul>		1		
3	<p><b>Colposcope machine</b>  <i>Specification:</i></p> <p>Stand: Mobile stand with 4 anti static wheels with brakes</p> <p>Magnichanger: 5 Step magnichanger with Magnification</p> <p>Viewing Bodies:</p> <p>Objective: Objective lens, fine focus control knob and sterilizable cap.</p> <p>Eyepieces: Wide field adjustable eyepiece</p> <p>Observation head: Ergonomic adjustable</p>		1		

Sl. No.	Items	Detailed specification	Qty.	Unit Rate	Rate in word
	handgrips Illumination: Fiber optic cable Input: Universal input 100V-240V AC, 50/60Hz Standard Accessories: Dust cover for microscope observation head and arm. Packing in sturdy packing box with power cord, instruction manual and installation kit.				
4	Oxygen Concentrator		4		
5	Nasal Speculum		10		
6	Tilley's Nasal Dressing Forcep		3		
7	Asch's Forceps		1		
8	Walsham's Froceps		1		
9	Farbuef Elevator		2		
10	Jobson Horne Probe with Ring Curette		5		
11	Crocodile Forceps		2		
12	Cup Forceps		2		
13	Tongue Depressor		5		
14	Indirect Laryngoscopic Mirror		5		
15	Thilenius peritonsillar drainage forcep (Quinry forcep)		1		
16	Tongue tie releasing spatula		2		
17	Draffin's Bipod metallic stand		2		
18	Boyls Davis mouth gag with tongue depressor		1		
19	Tonsil holding forcep (dennis Brown)		2		
20	Evc's tonsillar dissector with ant anterior pillar retractor		1		
21	Tonsillar snare		1		
22	Negus Tonsillar artery forceps		2		
23	St. Clair Thomson's Adrenoid Curette with cage		1		
24	Wayn's long dissecting forceps with tooth		1		
25	Birkett's long sunder tonsillar hemostatic forceps		2		
26	Magvaran Tonsillar Bridge		1		
27	Evc's forceps		2		
28	Turbinectomy Scissor (Heymann's)		1		
29	Clair Thomson's long bladed nasal speculum		2		
30	Donor Couch		3		
31	<b>Binocular Microscope</b> Standard set complete with in-built 6V20W halogen light illuminator, with anti-fungus Achromatic Objectives 4x, 10x 40x, (Spring) & 100x (Oil, Spring), paired eyepieces wide field 10x in thermo Cole packing. <b>Specifications:</b> • Binocular observation head model, inclination 45 degree, interpupillary distance adjustment range 53-75 mm,		4		

Sl. No.	Items	Detailed specification	Qty.	Unit Rate	Rate in word
	<ul style="list-style-type: none"> <li>• Eyepiece: 10x widefield, antifungus coated.</li> <li>• Built-in 6V, 20W illuminator base with halogen lamp (with one spare). Plano-concave mirror unit. 8 cc immersion oil. Plastic cover. Instruction manual. In thermo cole packing.</li> </ul>				
32	B.P Instruments (Digital)		4		
33	Weighing Machine		2		
34	Needle Destroyer		5		
35	Centrifuge Machine		2		
36	Blood Bank Reprigerator		1		
37	Bilirubinometer		1		
38	Post Mortem Set (Autopsy box)		2		
39	Phototherapy		2		
40	Diathermy		2		
41	Tube Sealer		1		
42	Deep Freezer -20C		1		
43	Cold box		2		
44	<p>X-Ray Machine 300 mA  <b>300mA, 125KVP X-Ray MACHINE</b> with rotating anode X-Ray tube, Floor to ceiling tube stand and Horizontal Bucky table)</p> <p><b>Technical Specification:</b>  <b>X-RAY MACHINE:</b>  300mA-125KVP, full wave solid state silicon rectified X-Ray generator for radiography suitable for single tube operation.  <b>POWER OUTPUT</b>  <b>RADIOGRAPHY KV RANGE</b>  <b>mA RATING:</b>  Small Focus  Large Focus  <b>TIMER:</b> Solid state electronic timer</p> <p><b>CONTROL PANEL:</b></p> <ul style="list-style-type: none"> <li>• Push to on and off switches.</li> <li>• Voltmeter, mA meter.</li> <li>• Digital display of active KVP and mAs.</li> <li>• Major and minor KV selector.</li> <li>• Voltage compensator.</li> <li>• Tube overload indicator and x-ray indicator.</li> <li>• For tube safety, quick trip-overload circuit breaker and inbuilt electronic system to block factors beyond specified tube rating.</li> <li>• Automatic safety system to block unwanted exposure factors beyond tube rating.</li> <li>• A Hand switch with flexible long cord enables the operator to keep away from</li> </ul>		1		

Sl. No.	Items	Detailed specification	Qty.	Unit Rate	Rate in word
	<p>the radiation area during exposure.</p> <p><b>COLLIMATOR:</b> One manual collimator</p> <p><b>X-RAY TUBE:</b>  1No. Dual focus rotating anode X-Ray tube  Small focus  Large Focus  Anode Heat Storage Capacity</p> <p><b>HV CABLE:</b>  One pair of high voltage cables of suitable length with straight sleeveings.</p> <p><b>TUBE STAND:</b>  Floor to ceiling stand and with counter balanced tube head (rotatable <math>\pm 180</math> degree) 360 degree rotatable; mounted on floor ceiling rails for convenient movements</p> <p><b>HORIZONTAL TABLE:</b>  Horizontal bucky table for over couch and bucky radiography of various body parts. The table consists of motorized reciprocating bucky with grid. The Bucky travels the entire length of the table and can be locked at any desired position by a lock. The tabletop is made of low radiation absorption, waterproof material.</p>				
45	<p><b>ECG Machine</b>  <u>Specification</u></p> <ul style="list-style-type: none"> <li>• Acquisition and display of 12 leads simultaneously</li> <li>• Good/high resolution image quality on screen and on printed report</li> <li>• ECG paper speed of 5, 25 and 50 mm/s</li> <li>• Accurate analysis and measurement of rate, intervals, duration and axis.</li> <li>• Built in high resolution thermal array printer</li> <li>• Full screen preview of complete 12 lead report prior to printing</li> <li>• Alphanumeric keyboard for quick patient data entry</li> </ul> <p>Adequate memory at least 40 ECG's and additional with optional USB device</p>		1		
46	Incubator (Baby)		1		
47	Digital Analytic Balance		1		
48	Dressing Trolley/Stretcher on Trolley		5		

**FOR DISTRICT HOSPITAL MAMIT**

<b>Sl. No.</b>	<b>Items</b>	<b>Detailed specification</b>	<b>Qty.</b>	<b>Unit Rate</b>	<b>Rate in word</b>
1	<b>Endoscope machine</b> <i>Specification :</i> <ul style="list-style-type: none"> <li>• Gastrointestinal HD Videoscope with NBI image technique</li> <li>• UPS 2KV (Offline)</li> <li>• Colonoscopy Videoscope</li> <li>• 24" full HD Monitor (1920x1080) with DVI port.</li> </ul>		1		
2	<b>Colposcope machine</b> <i>Specification:</i> Stand: Mobile stand with 4 anti static wheels with brakes Magnichanger: 5 Step magnichanger with Magnification Viewing Bodies: Objective: Objective lens, fine focus control knob and sterilizable cap. Eyepieces: Wide field adjustable eyepiece Observation head: Ergonomic adjustable handgrips Illumination: Fiber optic cable Input: Universal input 100V-240V AC, 50/60Hz Standard Accessories: Dust cover for microscope observation head and arm. Packing in sturdy packing box with power cord, instruction manual and installation kit.		1		
3	Oxygen Concentrator		4		
4	Nasal Speculum		10		
5	Tilley's Nasal Dressing Forcep		3		
6	Asch's Forceps		1		
7	Walsham's Froceps		1		
8	Farbuef Elevator		2		
9	Jobson Horne Probe with Ring Curette		5		
10	Crocodile Forceps		2		
11	Cup Forceps		2		
12	Tongue Depressor		5		
13	Indirect Laryngoscopic Mirror		5		
14	Thilenius peritonsillar drainage forcep (Quinry forcep)		1		
15	Tongue tie releasing spatula		2		
16	Draffin's Bipod metallic stand		2		
17	Boyls Davis mouth gag with tongue depressor		1		
18	Tonsil holding forcep (dennis Brown)		2		
19	Ev's tonsillar dissector with ant anterior pillar retractor		1		
20	Tonsillar snare		1		
21	Negus Tonsillar artery forceps		2		
22	St. Clair Thomson's Adrenoid Curette with cage		1		
23	Wayn's long dissecting forceps with tooth		1		

Sl. No.	Items	Detailed specification	Qty.	Unit Rate	Rate in word
24	Birkett's long sunder tonsillor hemostatic forceps		2		
25	Magvaran Tonsillar Bridge		1		
26	Ev's forceps		2		
27	Turbineotomy Scissor (Heymann's)		1		
28	Clair Thomson's long bladed nasal speculum		2		
29	Donor Couch		3		
30	<p><b>Binocular Microscope</b> Standard set complete with in-built 6V20W halogen light illuminator, with anti-fungus Achromatic Objectives 4x, 10x 40x, (Spring) &amp; 100x (Oil, Spring), paired eyepieces wide field 10x in thermo Cole packing.</p> <p><b>Specifications:</b></p> <ul style="list-style-type: none"> <li>• Binocular observation head model, inclination 45 degree, interpupillary distance adjustment range 53-75 mm,</li> <li>• Eyepiece: 10x widefield, antifungus coated.</li> <li>• Built-in 6V, 20W illuminator base with halogen lamp (with one spare). Plano-concave mirror unit. 8 cc immersion oil. Plastic cover. Instruction manual. In thermo cole packing.</li> </ul>		4		
31	B.P Instruments (Digital)		4		
32	Weighing Machine		2		
33	Needle Destroyer		5		
34	Centrifuge Machine		2		
35	Blood Bank Regrigerator		1		
36	Bilirubinometer		1		
37	Post Mortem Set (Autopsy box)		1		
38	Phototherapy		2		
39	Diathermy		1		
40	Tube Sealer		1		
41	Deep Freezer -20C		1		
42	Cold box		2		
43	<p>X-Ray Machine 300 mA <b>300mA, 125KVP X-Ray MACHINE</b> with rotating anode X-Ray tube, Floor to ceiling tube stand and Horizontal Bucky table)</p> <p><b>Technical Specification:</b> <b>X-RAY MACHINE:</b> 300mA-125KVP, full wave solid state silicon rectified X-Ray generator for radiography suitable for single tube operation.</p> <p><b>POWER OUTPUT</b> <b>RADIOGRAPHY KV RANGE</b></p>		1		

Sl. No.	Items	Detailed specification	Qty.	Unit Rate	Rate in word
	<p><b>mA RATING:</b>            Small Focus            Large Focus</p> <p><b>TIMER:</b> Solid state electronic timer</p> <p><b>CONTROL PANEL:</b></p> <ul style="list-style-type: none"> <li>• Push to on and off switches.</li> <li>• Voltmeter, mA meter.</li> <li>• Digital display of active KVP and mAs.</li> <li>• Major and minor KV selector.</li> <li>• Voltage compensator.</li> <li>• Tube overload indicator and x-ray indicator.</li> <li>• For tube safety, quick trip-overload circuit breaker and inbuilt electronic system to block factors beyond specified tube rating.</li> <li>• Automatic safety system to block unwanted exposure factors beyond tube rating.</li> <li>• A Hand switch with flexible long cord enables the operator to keep away from the radiation area during exposure.</li> </ul> <p><b>COLLIMATOR:</b> One manual collimator</p> <p><b>X-RAY TUBE:</b>            1No. Dual focus rotating anode X-Ray tube            Small focus            Large Focus            Anode Heat Storage Capacity</p> <p><b>HV CABLE:</b>            One pair of high voltage cables of suitable length with straight sleeveings.</p> <p><b>TUBE STAND:</b>            Floor to ceiling stand and with counter balanced tube head (rotatable <math>\pm 180</math> degree) 360 degree rotatable; mounted on floor ceiling rails for convenient movements</p> <p><b>HORIZONTAL TABLE:</b>            Horizontal bucky table for over couch and bucky radiography of various body parts. The table consists of motorized reciprocating bucky with grid. The Bucky travels the entire length of the table and can be locked at any desired position by a lock. The tabletop is made of low radiation absorption, waterproof material.</p>				



Sl. No.	Items	Detailed specification	Qty.	Unit Rate	Rate in word
44	<b>ECG Machine</b> <u>Specification</u> <ul style="list-style-type: none"> <li>• Acquisition and display of 12 leads simultaneously</li> <li>• Good/high resolution image quality on screen and on printed report</li> <li>• ECG paper speed of 5, 25 and 50 mm/s</li> <li>• Accurate analysis and measurement of rate, intervals, duration and axis.</li> <li>• Built in high resolution thermal array printer</li> <li>• Full screen preview of complete 12 lead report prior to printing</li> <li>• Alphanumeric keyboard for quick patient data entry</li> </ul> Adequate memory at least 40 ECG's and additional with optional USB device		1		
45	Incubator (Baby)		1		
46	Digital Analytic Balance		1		
47	Dressing Trolley/Stretcher on Trolley		5		

**FOR DISTRICT HOSPITAL LAWNGTLAI**

Sl. No.	Items	Detailed specification	Qty.	Unit Rate	Rate in words
1	<b>Endoscope machine</b> <i>Specification :</i> 1) Gastrointestinal HD Videoscope with NBI image technique 2) UPS 2KV (Offline) 3) Colonoscopy Videoscope 4) 24" full HD Monitor (1920x1080) with DVI port.		1		
2	<b>Colposcope machine</b> <i>Specification:</i> Stand: Mobile stand with 4 anti static wheels with brakes Magnichanger: 5 Step magnichanger with Magnification Viewing Bodies: Objective: Objective lens, fine focus control knob and sterilizable cap. Eyepieces: Wide field adjustable eyepiece Observation head: Ergonomic adjustable handgrips Illumination: Fiber optic cable Input: Universal input 100V-240V AC, 50/60Hz Standard Accessories: Dust cover for microscope observation head and arm. Packing in sturdy packing box with power cord, instruction manual and installation kit.		1		
3	Oxygen Concentrator		4		
4	Examination Table		2		
5	Labour Table		2		
6	Shadowless Light – Pedestal		2		
7	Multi Channel Monitor		1		
8	Suction Machine		2		
9	MTP Machine		2		
10	Vacuum Extractor		1		
11	Fetal Monitor		2		
12	Fetoscope		2		
13	Instruments Sterilizer Size : 12" x 6" x 4"		1		
14	Baby Weighing Machine		2		
15	Kelleys pad		2		
16	D & C Set		2		
17	Sims Duckbill speculum : Medium		2		
18	Cusco Vaginal Speculum : Medium		2		
19	Uterine Curette blunt and sharp combine.		2		
20	Wrigley's obstetric forceps.		2		
21	Ovum Forceps.		2		
22	Hysterectomy Forceps. Straight/Curved with 1x2 teeth.		2		
23	Hysterectomy Forceps Rectangular Jaws. 22.2		2		
24	Vacuum Extractor		1		
25	Uterin Sound		2		

26	Sim's Speculum		2		
27	Delivery set		5		
28	B.P Instruments (Digital)		5		
29	Sthethoscope		5		
30	Wheel Chair		2		

**FOR DISTRICT HOSPITAL SAIHA**

<b>Sl. No.</b>	<b>Items</b>	<b>Detailed specification</b>	<b>Qnty.</b>	<b>Unit Rate</b>	<b>Rate in words</b>
31	<p><b>Endoscope machine</b>  <i>Specification :</i></p> <ul style="list-style-type: none"> <li>• Gastrointestinal HD Videoscope with NBI image technique</li> <li>• UPS 2KV (Offline)</li> <li>• Colonoscopy Videoscope</li> <li>• 24" full HD Monitor (1920x1080) with DVI port.</li> </ul>		1		
32	<p><b>Colposcope machine</b>  <i>Specification:</i>                      Stand: Mobile stand with 4 anti static wheels with brakes                      Magnichanger: 5 Step magnichanger with Magnification                      Viewing Bodies:                      Objective: Objective lens, fine focus control knob and sterilizable cap.                      Eyepieces: Wide field adjustable eyepiece                      Observation head: Ergonomic adjustable handgrips                      Illumination: Fiber optic cable                      Input: Universal input 100V-240V AC, 50/60Hz                      Standard Accessories: Dust cover for microscope observation head and arm.                      Packing in sturdy packing box with power cord, instruction manual and installation kit.</p>		1		
33	Oxygen Concentrator		4		
34	Hydraulic Operation Table		1		
35	Shadowless Operation Light - Ceiling Type		1		
36	Suction Machine		1		
37	<p><b>Surgical Diathermy</b>  <i>Features :</i></p> <ul style="list-style-type: none"> <li>• Instant response technology with feedback effect as fast as 0.005 sec</li> <li>• Spray mode for better coagulation effect</li> <li>• Power efficiency rating : 98%</li> <li>• Dual monopolar activation facility</li> <li>• Bipolar cut mode</li> <li>• Recall memory facility</li> <li>• Under water cutting/coagulation facility</li> <li>• Compatible with Argon plasma coagulation system</li> </ul> <p><u>Standard Accessories</u></p> <ul style="list-style-type: none"> <li>• Monopolar foot switch</li> <li>• Electrosurgical hand switching pencil</li> </ul>		1		

Sl. No.	Items	Detailed specification	Qnty.	Unit Rate	Rate in words
	<ul style="list-style-type: none"> <li>• Polythesive II REM patient return electrode</li> <li>• Bi-polar foot switch</li> <li>• Disposable bipolar card</li> <li>• CT forceps insulated cushioning</li> <li>• Universal active adaptor</li> </ul>				
38	Abdominal Retractor, Large		2		
	Medium		2		
	Small.		2		
39	Babcock Tissue Forceps Box joint. 6"		2		
	8"		2		
40	Allies Tissue Forceps. 5"		2		
	6"		2		
	7"		2		
	8"		2		
41	Babcock intestinal Forceps.		2		
42	Jolls Thyroid Retractor with licking nut.		1		
43	Wayne's Pediatric intestinal clamp.		1		
44	Dennis Brown intestinal Forceps 7 inch.		2		
45	Surgical Blade. Diff. Size. Sizes: 11, 15, 18, 20, 21, 23		4		
46	Surgical Blade Handle 3 & 4. - Bard Parker		2		
47	Sponge Holding Forceps : 6"		1		
	10"		1		
	12"		1		
48	Scissor Straight : 4"		2		
	6"		2		
	10"		2		
49	Dissecting Forceps Plain : 4"		2		
	6"		2		
50	Toothed 4"		2		
	5"		2		
	6"		2		
51	Needle Holder a) Glending Straight, cross serrated jaws 6¼"		1		
	b) Kilners cross serrated jaw 6½"		1		
52	Tube for suction apparatus. Rubber / Polythene		2		
53	Proctoscope : Large		1		
	Medium		1		
	Small		1		
54	Biopsy Forceps : Lockhart Mummery officers, Yeomen Walton'n		1		
55	Humbey's skin grafting handle.		1		
56	Humbey's skin grafting blade.		2		
57	Sinus Forceps.		2		
58	Cheatle Forceps.		2		

<b>Sl. No.</b>	<b>Items</b>	<b>Detailed specification</b>	<b>Qty.</b>	<b>Unit Rate</b>	<b>Rate in words</b>
59	Artery Forceps Mosquito : Straight / Curved.		2		
60	Cut down scissors straight sharp pointed.		2		
61	Artery forceps Spencer wells straight/curved. 6"		2		
		7"	2		
		8"	2		
62	Artery forceps kochers straight/curved. Diff. Size. 6"		2		
		7"	2		
		8"	2		
63	Nebulizer		2		
64	Episiotomy Scissor		2		
65	Electro Cautery machine		1		

**FOR DISTRICT HOSPITAL SERCHHIP**

Sl. No.	Items	Detailed specification	Qty.	Unit Rate	Rate in words
1	<p><b>Endoscope machine</b>  <i>Specification :</i></p> <ul style="list-style-type: none"> <li>• Gastrointestinal HD Videoscope with NBI image technique</li> <li>• UPS 2KV (Offline)</li> <li>• Colonoscopy Videoscope</li> <li>• 24" full HD Monitor (1920x1080) with DVI port.</li> </ul>		1		
2	<p><b>Ultrasound Machine</b>  <i>Main Features:</i></p> <ul style="list-style-type: none"> <li>• LED monitor with non-interlaced display</li> <li>• Control Panel Lifting Mechanism</li> <li>• Real time channel 2D gray – scanned imaging with multi-beam receiving.</li> <li>• 1152 Channel Digital Beam forming with:</li> <li>• Dynamic Focus, Dynamic Aperture, Dynamic Apodization</li> <li>• Synthetic Aperture Control</li> <li>• Full Spectrum Imaging</li> <li>• Motion mode (M-mode)</li> <li>• Color motion mode (Color M-mode)</li> <li>• Pulsed wave (PW) spectral Doppler</li> <li>• Color Doppler (C-mode)</li> <li>• Power Doppler (PD-mode)</li> <li>• Tissue Harmonic Imaging</li> <li>• Pulse Inversion Harmonic Imaging</li> <li>• Extreme High Dynamic Range</li> <li>• Trapezoidal Imaging</li> <li>• Combined modes</li> <li>• 2D/M, 2D/PWD, 2D/CD, 2D/PD, 2D/CD/ PW, 2D/PD/PW, 2D/CD/Color M</li> <li>• Internally Mounted Hard Disc Drive (HDD) (160 GB)</li> <li>• Various Measurement Packages</li> </ul> <p><b>Applications:</b></p> <ul style="list-style-type: none"> <li>• General</li> <li>• Standby mode (Hibernation mode)</li> <li>• Post Gain Control</li> <li>• Peripheral output device support</li> <li>• High Resolution Zoom (Read/Write)</li> </ul>		1		
3	<p><b>Colposcope machine</b>  <i>Specification:</i>            Stand: Mobile stand with 4 anti static wheels with brakes            Magnichanger: 5 Step magnichanger with Magnification            Viewing Bodies:            Objective: Objective lens, fine focus</p>		1		

Sl. No.	Items	Detailed specification	Qnty.	Unit Rate	Rate in words
	control knob and sterilizable cap. Eyepieces: Wide field adjustable eyepiece Observation head: Ergonomic adjustable handgrips Illumination: Fiber optic cable Input: Universal input 100V-240V AC, 50/60Hz Standard Accessories: Dust cover for microscope observation head and arm. Packing in sturdy packing box with power cord, instruction manual and installation kit.				
4	Oxygen Concentrator		4		
5	Nasal Speculum		10		
6	Tilley's Nasal Dressing Forcep		3		
7	Asch's Forceps		1		
8	Walsham's Froceps		1		
9	Farbuef Elevator		2		
10	Jobson Horne Probe with Ring Curette		5		
11	Crocodile Forceps		2		
12	Cup Forceps		2		
13	Tongue Depressor		5		
14	Indirect Laryngoscopic Mirror		5		
15	Thilenius peritonsillar drainage forcep (Quinry forcep)		1		
16	Tongue tie releasing spatula		2		
17	Draffin's Bipod metallic stand		2		
18	Boyls Davis mouth gag with tongue depressor		1		
19	Tonsil holding forcep (dennis Brown)		2		
20	Ev's tonsillar dissector with anterior pillar retractor		1		
21	Tonsillar snare		1		
22	Negus Tonsillar artery forceps		2		
23	St. Clair Thomson's Adrenoid Curette with cage		1		
24	Wayn's long dissecting forceps with tooth		1		
25	Birkett's long sunder tonsillar hemostatic forceps		2		
26	Magvaran Tonsillar Bridge		1		
27	Ev's forceps		2		
28	Turbineotomy Scissor (Heymann's)		1		
29	Clair Thomson's long bladed nasal speculum		2		