



**CHIEF DISTRICT MEDICAL & PUBLIC HEALTH OFFICER :  
KEONJHAR**



Advt. No. 1555/CDM&PHO,Keonjhar

Date 07.10.2021

**TENDER CALL NOTICE**

Sealed tenders are hereby invited from the intending manufacturers or their authorized stockiest / Distributors for supply of Hospital Equipments (EIF) to (DHH, Keonjhar, SDH, Anandapur, SDH, Champua & Barbil CHC) for 2021-22 to Keonjhar District.

The eligible bidders may submit their tender papers on or before 07.10.2021 by 5.00 P.M. through Registered Post / Speed Post / Courier only to the undersigned. The Technical Bid documents will be opened on 08.10.2021 at 11.30 A.M. Those who will qualify in the Technical Bid, their Financial Bids will be opened on the same day. The details in this connection are available in the district NIC website: [www.kendujhar.nic.in](http://www.kendujhar.nic.in).

The authority will not be responsible for any postal delay. The undersigned has reserves the right to reject or cancelled any or all the Tender without assigning any reason thereof.

**Sd/- Chief District Medical & Public Health Officer, Keonjhar**

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**OFFICE OF THE CHIEF DISTRICT MEDICAL & PUBLIC HEALTH OFFICER, KEONJHAR**

**TENDER CALL NOTICE**

No. 2805/2021 (M)

Dated 24.10.2021

**Terms and Conditions of Tender submission & Finalisation**

Sealed Tenders are invited from the interested manufacturer/ firms / agencies / organization for supply of Hospital Equipment, [EIF], O/o- CDM & PHO Keonjhar (To be installed at DHH, Keonjhar, SDH, Anandapur Pur, SDH, Champua & CHC, Barbil ) as per specification detailed in **Annexure "A"**

Last date and time for submission of Tender	07.10.2021 till 05.00 P.M. Through (Speed Post/ Registered Post/ Courier Only)
Date, Time & Place of Opening of Tender	08.10.2021 at 11.30 A.M. At – DTU, NHM, Keonjhar
Documents to be submitted	<ul style="list-style-type: none"><li>a) Copy of GST</li><li>b) Photo Copy PAN Card of the organization (Firm/Agency/Proprietor)</li><li>c) Copy of authorization certificate in case of distributor.</li><li>d) Copy of valid ISO of manufacturer/ Distributer.</li><li>e) Proof of at least one order copy of any hospital supply(Govt./ PSU/ PVT)</li><li>f) Average annual turnover amounting to Rs. 8,00,000,00.00 (Eight Crore) in last three financial years (2017-18, 2018-19 &amp; 2019-20).The audit Report for the above said financial year to attached for verification.</li><li>g) Provide any other certification as mentioned in specification of specific product.</li><li>h) The agency should submit the Boucher item wise mentioning details specification with seal and stamp.</li><li>i) Undertaking for supply of the materials as per the specifications only.</li></ul>
Signing of Documents	All papers / documents submitted with the Tender must be signed by the Bidder.
Tender Paper Cost and Earnest Money Deposit	<b>Tender Paper Cost of Rs. 5,000/-(Rupees Five Thousand Only) (Non-Refundable)</b> in form of Bank Draft drawn in favor of "CDMO, Keonjhar-DMF" payable at Keonjhar.
Delivery Timeline	The agency must ensure for delivery of the product at Office of the CDM & PHO, Keonjhar and other intuition as mentioned <b>within Thirty days</b> after receiving of order.
Submission of Bid Documents	The Bidders must submit the Technical and Financial Bid through (Speed Post/ Registered Post/ Courier Only) as " <b>Tender for supply of Hospital Equipments [EIF]</b> ".
Validity of RC	The tender rate to be valid for one year
Validity of Tender Paper	180 Days from date of published
Performance Security	The Bidder should be deposited @ 3.00% of order value (Base Price)
The undersign reserves all the rights to cancel or reject any or all tenders without assigning any reason thereof. The decision of the committee will be treated as final. The committee reserves the rights to cancel any item if the quality of the item (Sample) is compromised.	

**Annexure "A"**  
**List of items with specifications**

Sl No	Name of the items	Specifications
1	ICU Fowler Bed	*Adjustment facility of back & leg section trendelenburg/ reverse *three separate cranks. *moduled Head/ foot panels collapsible side rails *5" individuals locking casters. *overall Dimension 2100L x 900 W x 600 H
2	Patient Monitor (Multipara)	Product quality Standard: Should be US FDA or European CE approved module CE, Certificate must be furnished by notified agency. Manufacture should be ISO 13485 certified for quality standard. Should comply to IFC 60601-2-49 Medical electrical equipment Particular requirement for the basic safety and essential performance of multifunction patient monitoring equipments. 1. Should have facility for printing ECG at 25mm / Sec and 50 mm/sec speed. 2. Should have facility for charging from 220 V AC. 3. Should be supplied with (i) Pulse oximeter probe (adult - Ino & Pediatric - 1no , Neonate - Y sensor- 1no.) (ii) ECG cable -5 lead (Adult, Pediatric ) (iii) temperature probe (rectal- 1no and skin - 1no for adult) (iv) NBP (non- Invasive blood pressure ( 4 sizes Adult, Pediatric and infant) The material of the probe should be such that it is non-breakable and bio-compartable . 4. Capable of saving daa for min 24 hr. 5. Rates for accessories should be offered in price bid. 5. Rates for accessories should have pulse oximeter module ( Masio/ Nellcor ) which most work on motion and in low perfusion condition. 7. Monitor should have capability for arrhythmia analysis. 8. Accuracy of monitoring Parameters. Should meet standard requirement for neonate and infants monitoring including adult and pediatric patients. 9. the unit should be defibrillator protected. 10. Pacemaker detection facility should be possible. 11. The monitor should have inbuilt connectivity facility for central work station. 2.2 Settings _ User operated 1mV FCG Test marker function required (....) 2.3 User's interface- Manual 2.4 Software and / or standard of communication Audio visual alertness required , Physical Characteristics : 1. Dimensions (metric) Screen size minimum 10 inch 2. weight (Lbs, kg) - NA. 3. Configuration -- Case is to be hard and splash proof. display must allow easy viewing in all light levels . cable connectors to be designed so as fit correct socket only. 4. Noise ( in dBA ) : NA. 5. Heat dissipation - should maintain nominal temp and the heat should be disbursed through an exhaust cooling fan. 6. Mobility portability -supplied in portative case for clean storage and safe transport should have facility for wall mounting. 4.1 Voltage ( value AC or DC) -220 to 240V , 50 Hz. 4.2 Battery operated - Battery charge to be integrate to main power supply and to charge battery during mains power operation to unit . Battery powered silence able alaram for power failure internal , replaceable rechargeable battery allows operation for at least one hour in the event of power louder. 4.3 tolerance ?(to variations , shutdown) voltage corrector / stabilize to allow operation at of local rated voltage. 4.5 Proteciumn - Electrical protection provided by fuses in both live and neutral supply llines 4.5 Power consumption - NA 4.6 Other energy supplies- Mains cable . Accessories :- 1. 5 lead ECG cable- Adult- Pediatric ( complete set) - 01 no. 2. Pack of 100 disposable ECG connection electrodes. 3. reusable SPO2 neonate and adult profs one from each 4. three nos. NIBP cuffs of each size adult , Pediatric & neonate 5. One skin and one rectal temperature probes 6. One mounting Bracket for wall mounting. Power supply. power input 220 - 240 VAC , 50 Hz fitted with Indian plug. There should be provision for connecting to Central Monitoring System.
3.	CMS (Central Monitoring System)	Central Station Monitor of minimum 21" screen to be provided with one laser printer, The cabling has to be done by supplier in the ICU. One CNS should be able to connect upto 16 monitors. 2. CMS should have the facility to communicate and command any patient bed connected with wired network. 3. Should able to monitor all the waveforms of connected patient monitors.

		<p>4. Should have single screen display of minimum 08 patient monitors.</p> <p>5. Should have data storage &amp; management of patient information of minimum of minimum 48 hours with trend data.</p> <p>6. Should provide the capability to enter patient demographic information at the bedside or central monitor. on –screen keyboard shall be present for entering this data.</p> <p>7. Waveform zone display color must be user-configurable at any time to allow differentiation on patient waveforms.</p> <p>8. CNS monitor shall support use of mouse, keyboard and barcode scanner when using remotely-accessed application.</p> <p>9. Central monitor should have the full bed review of the beds selected.</p> <p>10. Should provide the required server based computer system of latest generation with suitable software &amp; laser printer for printing patient information.</p> <p>11. Should provide online UPS for minimum 2 hrs power back up for server based system &amp; CMS monitor.</p> <p>12. Power input to be 220-240 V AC, 50 Hz fitted with Indian plug of appropriate rating.</p>
4	<b>Transport Monitor</b>	<p>Display Size 8.4 inch Color Display</p> <p>Power Source Electric</p> <p>Display Type Digital</p> <p>Voltage 240 V</p> <p>Usage/Application Hospital And Clinic</p> <p>Frequency 50-60 Hz</p> <p>Model Name/Number IM50</p> <p>IP Protection IP44</p> <p>Battery Type Rechargeable Li-ion Battery</p> <p>Battery Backup 5.5 hours</p> <p>Frozen Waveform 120 second Product Description</p> <p>Configurations</p> <p>Standard Parameters</p> <p>3/5-lead ECG, HR, RESP, EDAN SpO2 , NIBP, PR, 2-TEMP</p> <p>Optional Parameters</p> <p>Nellcor OxiMax™ SpO2 , 2-IBP, EDAN G2 CO2 (Sidestream), Respirationics CO2 (Mainstream and Sidestream)</p> <p>Reliable Algorithms</p> <p>iSEAP™ ECG algorithm optimized for arrhythmia detection, pacemaker detection, and HR measurement</p> <p>iMAT™ SpO2 algorithm with outstanding motion resistance and low perfusion resistance performance</p> <p>iCUFSTM NIBP algorithm optimized for cardiac patients, hypertensive patients, and neonatal patients</p> <p>EDAN G2 CO2 (Sidestream) Superior water trap design for accurate monitoring</p> <p>iCARB algorithm with intelligent CO2 pseudo wave identification technology</p> <p>Multiple sampling accessories as options for adult, child and neonate patients</p> <p>Respirationics CO2 (Mainstream/Sidestream)</p> <p>Plug &amp; play module design</p> <p>Dehumidification tube instead of water trap</p> <p>Low sampling rate of 50ml/min suitable for all types of patients</p>
5	<b>Syringe Pump</b>	<p>1. Should be US FDA or European CE approved model CE certificate must be furnished by notified agency.2. Manufacturer should be ISO 13485 certified for quality standards.</p> <p><b>CLINICAL PERFORMANCE;-</b> 1. Should accept all internationally produced / marketed syringes and should be able to detect it automatically. 2. Should support the Bolus supply of drug on press of single button as per need. 3. Should be able to pre-set different range of Bolus supply.</p> <p>2. <b>TECHNICAL SPECIFICATIONS:-</b> 1. Programmable flow rate should be from 0.1 ml/hr. 2. Saves last infusion rate even when the AC power is switched off. 3. Bolus rate should be 500ml/hr to 1200 ml/hr. 4. Selectable occlusion pressure trigger levels selectable from 300, 500 and 900 mmHg.5. Syringe pump should allow atleast 5ml, syringe. 6. Accuracy of <math>\pm 2\%</math> or better</p>

		<p>with the recommended syringe brand. 7. Maximum pressure generated <math>\leq 20</math> psi. 8. Automatic detection of syringe size and proper fixing. 9. Anti-bolus system to reduce pressure on sudden release of occlusion. 10. Pause infusion facility required. 11. Self-check carried out on powering on. 12. comprehensive alarm package required including occlusion alarm, near end of infusion pre-alarm and alarm, volume limit pre-alarm and alarm, low battery pre-alarm and alarm, AC power failure, drive disengaged, syringe loading error, maintenance required. 13. Should include KVO ( Keep vein open) enabling feature. 14. It should be an open system compliant. 15. Should have inbuilt drug dose calculation facility. 16. Settings -Single loadable with one syringe of minimum 10ml. 17. User's interface - Automatic. 18. Software and / or standard of communication- Unbuilt. PHYSICAL CHARACTERISTICS: - 1. Configuration - Tamper resistant case made of impact resistant material Secure mountable on tabletop, IV stand or bed fitting. 2. Noise (in dBA) - Noise free. 3. Heat dissipation -NA. 4. Mobility , portability- Yes ENERGY SOURCE: 1. Voltage:-220 to 240 V, 50 Hz. 2. Battery operated- Internal rechargeable battery having at 4 to 6 hours backup for 10 ml/hr flow rate with 50ml syringe. 3. Tolerance ( to variations, shutdowns) - 10%. 4. Protection - Battery powered alarm for power failure or disconnection. 5. Power consumption - 25W. ACCESSORIES, SPARE PARTS, CONSUMABLES 1. Accessories ( mandatory, standard , optional) - Clamp for mounting pump on IV Stand.</p>
6.	<b>O2 Cylinder with flow meter and Trolley</b>	10 Liter ( 1.5 CU ) with flow meter and Trolley.
7	<b>ECG Machine-12 channel</b>	<p>Product Quality Standards- 1. Should be US FDA or European CE approved model, CE certificate must be furnished by notified agency. 2. Manufacturer should be ISO 13485 certified for quality standards. 3. Shall comply with IEC 60601-2-25, particular requirements for the basic safety &amp; essential performance of electrocardiographs. 5. Shall meet IEC-60601-1-2 General requirement of safety for Electromagnetic compatibility. Technical Specification. 1. Should be compact &amp; light weight 2. Should be of 12 lead ECG acquisitions with A4 size printout. 3. Should have LED screen size of minimum 5 inch. 4. Should have High-resolution color display provides real-time preview of 12 Lead ECG and post-acquisition review of acquired ECG. 5. Should have inbuilt thermal printer for printing of ECG. 6. It should have ECG interpretation for adult &amp; Pediatric. 7. Should have alphanumeric elastomeric Keyboard features dedicated "one touch" bottoms for ECG acquisition, rhythm printing and ECG transmission /order retrieval. 8. Should have benefits of Bi-directional communication via USB, USB memory stick, internal modem, LAN or wireless LAN. 9. Should have internal ECG storage up to 100 ECGs &amp; should be expanded up to 200 ECGs. 10. It should have Digital Sampling Rate minimum 4000 s/sec/channel used for pacemaker spike detection. 11. Should have operates on AC as well as rechargeable battery with internal battery charger. Fully charged battery operates for minimum 4 hours /50 ECGs printout. Auto shut off when not in use. 12. Should have user selectable multiple printout format 3+1, 3+3, 6 channel and 12 channel with user selectable rhythm leads. 13. Power Supply:- Power input to be 220-240 V AC, 50Hz fitted with Indian plug of appropriate rating. The bidder should quoted the rate of the consumables like papers of the same manufacturer for the procuring of the same year up to 6 years.</p>
8	<b>Defibrillator</b>	<p>1) Description of Function Defibrillator is required for reviving the heart functions by providing selected quantum of electrical shocks with facility for monitoring vital parameters.</p> <p>2) Operational Requirements Should be compact, Light weight, easy to use, Bi-Phasic Defibrillator with Manual (with easy 1-2-3 operation) Should monitor ECG and display them Should be able to print the ECG on thermal papers Should be capable of doing synchronized cardio version Can be operated from mains as well as battery.</p> <p>3) Technical Specifications Should be a Low Energy Biphasic defibrillator monitor with Recorder, having capability to deliver shocks from 2 Joules to 200 Joules. Should monitor ECG through paddles, pads and monitoring electrodes and Defibrillate through pads and paddles.</p>

		<p>Should compensate for body impedance for a range of 25 to 150 ohms  Should have a built in 50 mm strip printer  Should have charging time of less than 5 seconds for maximum energy.  Should have High resolution more than 8 inch Colour display for viewing monitoring parameters like ECG, SpO2, NIBP and etCO2 with 4 waveform capability of 4 seconds.  Both Adult and pediatric paddles should be available.  Should have event summary facility for recording and printing at least 55 events.  Should have a battery capable of usage for at least 5 hours of monitoring.  Should be capable of printing Reports on Event summary, configuration, self test, battery capacity etc.  Should have facility for self test/check before usage and set up function.  Should have facility to monitor parameters like SpO2, NIBP and etCO2 along with non invasive pacing (Demand &amp; Fixed mode) facility.  Should be able to upgrade the defibrillator for 12 lead ECG monitoring and ECG transmission.  4) System Configuration Accessories, spares and consumables, Defibrillator with AED and External Pacemaker – 01 , Adult with Built in Paediatric External Paddles - 01, Patient cables - 01, ECG Rolls – 50, Adult SpO2 reusable Sensor – 01, Adult NIBP Cuff and Hose – 01, 88 etCO2 Tubing (box of 20) – 01 box  AED Multifunction Pads for Adults - 10 pairs with Each unit  5) Environmental factors  The unit shall be capable of operating continuously in ambient temperature of 5 – 45 deg C and relative humidity of up to 95%  Shall meet IEC-60601-1-2:2001(Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility.  6) Power Supply  Power input to be 120-240VAC, 50-60 Hz  Should have a battery capable of usage for at least five hours.</p>
9	Dialysis Machine	<ol style="list-style-type: none"> <li>1. The structure of the machine should be of modular design.</li> <li>2. It should have Control &amp; Monitoring Screen with minimum 10" coloured TFT/LCD Display (Screen). Display should have screen with high clarity &amp; easily readable.</li> <li>3. It should have Acetate &amp; Bicarbonate dialysis facility.</li> <li>4. It should have Sequential Ultra filtration facility. It should have Arterial Venous &amp; Transmembrane pressure monitoring facility.</li> <li>5. Blood pump flow rate should be from 30 ml/min to 600 ml/min.</li> <li>6. It should have Single Needle dialysis facility.</li> <li>7. It should have Volumetric Ultrafiltration System.</li> <li>8. In-line Bicarbonate mixing and solution preparation facility during dialysis.</li> <li>9. It should have Air bubble detector with Optical Sensor ( to check the presence of blood in extracorporeal blood circuit) at Venous clamp.</li> <li>10. It should have Heparin Infusion Pump with rate 1 to 10ml/min and Bolus Infusion upto 5ml/min.</li> <li>11. It should have Blood leak Sensor which can differentiate between impurities and real blood.</li> <li>12. Should accept different concentrate formulation, different Dialyzers and blood tubing sets.</li> <li>13. It should have Dialysate flow rate range from 300ml/min. to 700ml/min. It should have self-test facility during treatment.</li> <li>14. Ultra filtration rate should be from 0 to 4.00L/Hr.</li> <li>15. In house potable water supply is available &amp; minimum 10micro/m size water filter assembly with cartridge shall be supplied with necessary attachments to make a functional unit</li> <li>16. Auto priming and rinsing of dialyzer and blood lines.</li> <li>17. It should have Hot Rinsing and Hot Chemical Disinfection facility. (Temp. upto 80 deg. Celsius) with recirculation system. Also it should have various chemo Thermal cleansing and disinfection programs. Disinfection shall be possible with any disinfectant universally used in such cases i.e. the system shall be open system.</li> <li>18. Facility for disinfection History/Log.</li> <li>19. It should have Ultra filtration and Sodium Profiling facility.</li> <li>20. It should have in-built Battery backup of 15 to 20 minutes for complete Extracorporeal blood system during power failure.</li> <li>21. Non-Invasive patient blood pressure monitoring.</li> <li>22. Must have the facility to up gradating to latest technology in future.</li> <li>23. Power supply- 220VAC + 15%, 50Hz</li> <li>24. Should work on AC mains without batteries.</li> <li>25. Operating &amp; Service manual with detail circuit diagram should be provided.</li> <li>26. On line clearance monitoring &amp; Kt/V to assess adequacy of</li> </ol>

		<p>dialysis. 27. Should provide Training to End Users. 28. Two years comprehensive warranty and should provide Technical support and also required support for spares and consumable for 5 years after warranty period is over. 29. Bidder should quoted CMC charges separately for the next five years, after warranty period is over. 30. The Dialysis machine should be "Open system". The machine should run on the consumables from other make as well. Bidder should quote the cost of the the frequently used consumables such as 1)Dialyzers of different sizes. 2) AV Tubing set (universal). 3) AV Needles. 4) Disinfectant solution. and any other consumable to run the machine, in Price Schedule.</p> <p>31. Demonstration compulsory. 32. Tropicalization: Operating room Temp. upto 40°C. Strong room temp. upto 60°C. Relative humidity upto 90% non condensity.</p> <p>33. Should provide UPS- one hour battery backup along with machine.</p> <p>34. It should be US FDA approved and CE Certified ( CE Certificate should be from Notified Body).</p>
10	Bi-pap	<p>Usage/Application Hospital &amp; Personal Use Model AVAPS Pressure Range (cm H2O) EPAP 4-25 cm H2O; IPAP 4-25 cm H2O; CPAP 4-20 cm H2O Operating Mode CPAP, S, S/T, PC, T Ramp Rate (mins) 0 to 45 min (5-min increments)</p>
11	HFNC (High flow Nasal Canula)	<p>Specification – Heated Humidified High Flow Nasal Cannula system – Infant &amp; Paediatric</p> <ol style="list-style-type: none"> <li>The device should have integrated flow generator to deliver flows from 2 to 25 litres in junior mode and upto 60 lpm in adult mode.</li> <li>Integrated Air/oxygen blending and Fio2 monitoring with facility to deliver wide range of oxygen concentrations from 21 to 100 %.</li> <li>The oxygen cell should not need infield calibration. .</li> <li>Clinician menu for setting range of Fio2 and flow settings.</li> <li>Inbuilt heated humidifier to deliver warm and humid gases to airway. The humidification chamber should have dual float with auto feed system.</li> <li>Display to monitor temperature of humidified gas, flow rate and fio2</li> <li>Visual and audible alarm indication for :       <ol style="list-style-type: none"> <li>Tubes disconnect Leaks, tube blockages, and water out and hardware fault with error codes. Audible power failure alarm.</li> </ol> </li> <li>The device should have thermal disinfection mode to minimize contamination.Heated tube for sterilization of the device should be provided with the device.</li> <li>Device should not require servicing and should have 2 years manufacturer replacement warranty.</li> <li>Accessories to be supplied with the system:       <ul style="list-style-type: none"> <li>• Patient breathing tube should be light weight with integrated spiral heating wire with insulating layer to minimize condensation</li> <li>• Soft, flexible anatomically contoured nasal cannula. The cannula should be available in different sizes suitable for infant and paediatric application. It should have hydrocolloid adhesive on Velcro to secure on skin. This should be easily replacable.</li> <li>• Air filter – 2 nos</li> <li>• Disinfection kit – 1no</li> <li>• Oxygen inlet extension tube- 1no</li> <li>• Mounting tray and pole with castors &amp; IV hook</li> <li>• The device should be supplied with oxygen flowmeter pole mount for oxygen flow upto 25 litres .</li> </ul> </li> <li>Supply frequency: 50/60 Hz, Supply voltage: 220-240 v</li> <li>Sound pressure level 45dbA@1m</li> <li>Oxygen analyzer accuracy +-10 % (within range of 25-80 % Fio2)       <ul style="list-style-type: none"> <li>• The unit should be compliance with international standards. IEC 60601 and ISO 13485 quality standard</li> </ul> </li> <li>Certification: US FDA and European CE approved</li> <li>Compliant with international standards. IEC 60601 and ISO 13485 quality</li> <li>Suitable for use in ICU, HDU, recovery, wards and emergency department</li> </ol>

12	CRRT (Continuous renal replacement therapy)	
13	DVD/DVT Pump (Deep Vein Thrombosis)	<ul style="list-style-type: none"> <li>• Field of Application:- Venous edema Relief Leg ulcer Lymph edema Post-thrombotic syndrome peripheral arterial disease ( under the doctor's instruction only) DVT PE Diabetes</li> <li>• Improves Blood Circulation &amp; Lymphatic System Function. Helps Relieve Knee problems, Legs &amp; Feet Swelling, Tension, Varicose Veins, Water Retention, Cramps, Reduces Pain and Soreness. Faster Workout Recovery for All Athletes.</li> <li>• Intermittent pneumatic compression analogue Display</li> <li>• Attachments : 2 Arm Cuff ,2 Legs Cuff ,1 Waist Cuff</li> <li>• Sequential Air Compression Leg Massager Recovery Boots and Pump for Blood and Lymphatic Circulation Therapy</li> <li>• Size : 6.6" L x 7.4" W x 12.99" H</li> <li>• Weight : 2.6 Kg / 5.5 lbs</li> <li>• Pressure Settings: Calf/Thigh Sleeve Foot Sleeve : 40 mmHg + 10/-5mmHg 120 mmHg + 10/-5mmHg</li> <li>• Input Rating : AC 100V-240V, 50/60 Hz, 04A-0.2A</li> <li>• Fuse Rating : 1A or T1AH 250V</li> </ul>
14	ICU Ventilator with NIV	<p>ICU Ventilator (With compressor)</p> <ul style="list-style-type: none"> <li>• Infant to Adult ICU Ventilator with advanced compressor design.</li> <li>• Type of ventilation: volume control, pressure control breath types.</li> <li>• Invasive &amp; Non Invasive applications as standard.</li> <li>• 4 hrs battery backup. Inline Nebulizer.</li> <li>• Software controlled Pressure Limit function</li> <li>• Mechanical pressure relief for additional safety</li> <li>• Sub- ambient valve for emergency air intake</li> <li>• Integrated Compressor from the same manufacturing company</li> <li>• Ventilator Modes: A/CMV, SIMV, Spontaneous, APRV, PRVC, Bilevel, NIV</li> </ul> <p>Should be supplied with humidifier and accessories HFOT</p>
15	Transport Ventilator	<ul style="list-style-type: none"> <li>• Should be light weight &lt;5 kg, compact and portable.</li> <li>• Should be suitable to ventilate adult and paediatric patients above 5 kg by invasive and non invasive modes.</li> <li>• Should preferably have provision of pole clamp.</li> <li>• Display should be large (at least 7 inches) , colour and Touch screen.</li> <li>• Internal Battery backup of at least 8 hours preferable.</li> <li>• Battery consumption indicator along with hours of Battery life should be displayed.</li> <li>• Preset programs for faster onset of ventilation.</li> <li>• Modes of Ventilation- VC, PC, SIMV with VC and PC, PS-CPAP atleast.</li> <li>• Real time Waveform displaying volume pressure curves in colour touch screen.</li> <li>• Oxygen source connection should be possible from high and low pressure system, both.</li> <li>• Should be capable of ventilating the patient on room air in case of emergency.</li> <li>• Screen Lock feature should be present.</li> <li>• Alarm range- Low FiO2, Low and High TV, MV, PEEP etc.</li> <li>• USB port for downloading data and internal memory to save patient parameters upto 7 days.</li> <li>• Should have light weight, reusable tubing's for ventilation.</li> <li>• Should have warranty for 1 year and should offer CMC after end of warranty period.</li> <li>• Firms which quote for indent should arrange for demonstration within 15 days, also if they do not respond to 3 emails/telephonic calls from I/O, the offer will be rejected.</li> <li>• Accessories- 1. Oxygen sensor</li> <li>2. Disposable circuit with leak valve, adapter and air filter</li> <li>3. Mains power supply pack with cord</li> <li>4. Carry bag</li> <li>5. USB stick</li> <li>6. Clinical Manual</li> </ul>

16	<b>Blanket Warmer</b>	<p>LED display controls for instant temperature reading  adjustable shelves  Door locks for security  Temperatures can range from 90 - 160 degrees F Can warm and maintain temperatures for IV fluids, irrigation solutions, blankets and linens Door Option: Steel or dual-pane tempered glass  Compartments: 2  Total Capacity: at 18" depth = 11.6 cu. ft. (3.1 cu. ft. upper/8.5 cu. ft. lower)  Total Capacity: at 24" depth = 15.8 cu. ft. (4.2 cu. ft. upper/11.6 cu. ft. lower)  Depth: 18" or 24"  Installation: Free-standing or recessed  Outside dimensions: at 18" Depth: 74 3/4 x 30 x 20 1/2" (1899 x 726 x 521 mm)  Outside dimensions: at 24" Depth: 74 3/4 x 30 x 26 1/2" (1899 x 762 x 673 mm)  Inside Dimensions: at 18" Depth: Upper chamber: 13 1/2 x 24 x 16 7/8" (343 x 610 x 429mm)  Lower chamber: 36 1/2 x 24 x 16 7/8" (927 x 610 x 429mm)  Inside Dimensions: at 24" Depth: Upper chamber: 13 1/2 x 24 x 22 7/8" (343 x 610 x 581mm)  Lower chamber: 36 1/2 x 24 x 22 7/8" (927 x 610 x 581mm)  Mobile Base: Optional on 24" depth model only  Temperature Range: 90°F (32°C) to 160°F (71°C)  Electronic Door Locks: Optional</p>
17	<b>Pulse Oximeter (Finger Tip)</b>	<p>Should have LED display.  Should have SPO2 accuracy of +-2%.  Should provide bar graph for pulse strength.  Should have minimum 1-2 Hrs. Back up time.  Should have portable &amp; light weight.</p>
18	<b>ICU Dedicated Ultrasound and Echo Machine</b>	<ol style="list-style-type: none"> <li>1. Easy portability, compact unit</li> <li>2. Weight less than 5 kg (excluding stand)</li> <li>3. Has 2D, B mode, M mode, Doppler, color, PW, CW, ECG Module</li> <li>4. Has neonatal echo, brain ultrasound and abdominal ultrasound packages with dedicated probes</li> <li>5. Echo probe footprint size appropriate for small neonates including those less than 1 kg</li> <li>6. Able to store still and video images in common file format such as JPEG, MPEG with hard disc of at least 150 GB</li> <li>7. Incorporated with software and hardware functionality to wired and wireless transfer and post-examination quantitative study of all types of raw data on other window, Mac or Linux based systems</li> <li>8. Advanced image optimization techniques for high quality imaging</li> <li>9. 13- 15 inch high resolution LCD</li> <li>10. Extremely high frame rates, enhanced color flow and color angio</li> <li>11. Integrated soft ware package for image data review, analysis, patient archive and reporting capabilities.</li> <li>12. CD/DVD writer, USB flash cards and high quality color printer</li> <li>13. Battery backup for at least 1 hour</li> <li>14. Probes <ol style="list-style-type: none"> <li>a. Wide-band multi-frequency phased array probe with bandwidth between 2.7 and 8.0 MHz</li> <li>b. Wide-band multi-frequency phased array probe with bandwidth between 5.0 and 11.5 MHz for neonatal echo</li> <li>c. Wide-band, multi-frequency micro convex array probe with bandwidth between 4.7 and 11 MHz for neonatal head and abdominal examination</li> </ol> </li> <li>15. Provided with high quality, compact stand with lockable wheels</li> <li>16. FDA &amp; CE certified</li> </ol>

19	<b>Bedside Portable X ray (100mA) with CR</b>	<p>Brand Vision  Model Name/Number Vision 100m A  Is It Portable Portable  Application Clinical, Hospital  Display Digital  Current 100 mA  Peak kilo Voltage 100 kvP  AERB Approved Yes  Operation Mode Automatic  Power Source Electric  HF Generator Radiography Output 3.5 KW,70mA,100 kvp  Tube Voltage Radiography 40 to 100 kVP ( In steps of 1 KW )  Tube Current Radiography 35-70 mA ( 25,40,50,60,70) Timer Radiography 0.02 sec to 5 sec  Being the leading names of the industry, we are occupied in providing a wide range of 100mA High Frequency X Ray Machine.  Details :  'Vision 100 A' is fine example of an X-ray machine that's manufactured to meet both national and international standards. The product meets all the essential requirements in terms of ease of use, mobility, maneuverability with high quality images that's rich in contrast offering excellent diagnostic value. Vision 100 A is ideally suited for applications in ICUs, OTs, Wards and Sports Centres and can be carried through lifts and narrow corridors.  Meets priorities, solves problems:  Vision 100 A meets the clinical priorities and solves problems typically faced in mobile X-ray systems, with some special features.  Model Overview:  Electronic feather touch membrane keyboard  Guaranteed and specially designed for one million operations  Convenient auto programme and manual mode selection with LED display  Independent kVp, mA timer display  Various voltages and timer setting options.  X-ray on audible tone  Mains on/off with overload circuit breaker  Horizontal and vertical travels of arms for better positioning of bedside X-Rays  Counter balance mechanism for easier positioning and optimum results  Slick, light and space saving design for maximum manoeuvrability and mobility for the first time in India. Should be associate with CR System (Desk top Computer, X-ray film Printer, Cassettes of various size its). The bidder should quoted the rate of consumables like Digital X-ray Plate of Same manufacture for procuring of the same upto 6 years.</p>
20	<b>Glucometer</b>	<p>Weight: 0.2 lbs (75 g), Dimensions: 3.6 in x 2.3 in x 0.9 in (91 mm x 58 mm x 23 mm), Data Storage: 400 glucose measurements or QC tests, Measurement Range and Units, Blood Glucose Measurement: Sample Volume Required, : 1.2uL, Time to Glucose Results: 6 seconds, Data Transfer: Strip Port Connection to USB, Data Program: Nova Microsoft-Excel based data transfer Software  Battery Information: Type-3V Li Button Battery, Features: Replaceable, Life: Minimum 600 tests before battery requires replacement</p>
21	<b>ABG Machine</b>	<p>SPECIFICATIONS OF BLOOD GAS ANALYSER (ABG MACHINE) 1. Fully automatic, upgradeable, fast electrolyte &amp; blood gas analyzer. 2. Essential Measured parameters; pH, pCO<sub>2</sub>, pO<sub>2</sub>, Hematocrit Lactate, glucose, Na<sup>+</sup>, K<sup>+</sup>, Ca<sup>++</sup>. All these parameters should be measured simultaneously 3. Calculated parameters should include Hemoglobin -cHgb, actual bicarbonate - cHCO<sub>2</sub>, total Carbon Dioxide - cTCO<sub>3</sub>, base excess of extra cellular fluid.- BE(ecf), base excess in Blood -- BE(b), Oxygen Saturation - cSO<sub>2</sub>. 4. Sample volume - less than 100 micro litre. 5. Fast analysis time - less than 60 sec. 6. Fully automatic test card technology - rectangular shape with built in gold plated electrodes and concealed calibrated fluids lines with micro technology for fluid movement. 7. Data display should be on well-illuminated, adequate size screen display. 8. Power Supply Using Rechargeable battery (lithium ion battery) 9. Back up of 6 hours with Rechargeable battery. 10. Connectivity - Via Blue tooth and WiFi for HIS and LIS . 11. Data Storage for atleast</p>

		1000 patients. 12. Calibration – Auto Calibration before every sample is inserted. 13. Operating the machine- User Friendly Touch Screen. 14. Ambient working temperature – 15 to 30 Degrees. 15. Test cards Storage – At Room Temperature 16. Upgradeable to future parameters like Cl-, Creatinine on the same card. 17. System should come along with a Windows based Personal Digital Assistant to control the entire system & printer. 18. Stand by blood gas cum electrolyte analyzer in case of breakdown. 19. Should have local service facility 20. Should supply test cards for 3 years (1000 cards/year) in a staggered manner as per expiry date of test card. 21. Warranty of 3 years and 5 years CMC after completion of three years 22. It must be UF-FDA /CE (Conformité Européenne) approved. 23. Must submit User list and Performance report 24. Demonstration is compulsory. 25. Training of hospital engineers & staff. 26. Operating and detailed service manual should be supplied. 27. Rates of consumables & accessories should be frozen for 8 years.
22	<b>BP instrument (dial)</b>	<ol style="list-style-type: none"> <li>1. Display LCD Digital Display.</li> <li>2. Measuring method oscillometric method</li> <li>3. Measuring range pressure: 0 mmHg to 299mmHg pulse :40 to 180/min</li> <li>4. Power source 4 AAA batteries 1.5 V.</li> <li>5. Battery life capacity of new alkaline batteries is approximately. 300 measurements.</li> <li>6. Operating temperature / Humidity 10 deg C to 40 deg C/30 to 85% RH</li> <li>7. Storage Temperature /Humidity / air pressure minus 20 deg C to 60 deg C/ 10.</li> <li>8. Battery Operated</li> <li>9. Optional Medium cuff, large cuff.</li> </ol>
23	<b>PFT (Plumbonyary Fuction Test)</b>	
24	<b>Blood Warmer</b>	<p>Temperature setting: 33 - 41°C  Power supply: AC100~240V/50~60Hz  Power consumption: Max. 180VA  Type of protection against electric shock: Class I Degree of protection against electric shock: BF  Applied part; Defibrillation-protected  Degree of protection against ingress of liquids: IPX2  Overheat protection: 42°C /43°C  Low temperature alarm: 32°C  Operating mode: Continuous  Dimension (W*D*H): 100×130×250mm  Net Weight:2.3kg</p>
25	<b>View Box</b>	<ol style="list-style-type: none"> <li>1. Ultra Thin X-ray Film illuminator using LED Lamps.</li> <li>2. The Thickness should be 25mm – 30mm.</li> <li>3. It should be suitable for viewing 14" x 17" films.</li> <li>4. It should have LED lamps having life-span of more than 100,000 hours.</li> <li>5. It should have easy insertion &amp; removal of the films.</li> <li>6. It should have homogeneous illumination &amp; having luminance of more than 1200 cd/m2.</li> <li>7. It should have separate On-Off function &amp; separate rotary continuous adjustable brightness control for each panel.</li> <li>8. It should have auto on/off function with insertion and removal of films.</li> <li>9. It should have fully electronic continuous brightness control, with adjustment range of approximately 90%.</li> <li>10. It should be directly connectable to power supply without any external adaptor.</li> <li>11. It should have Flicker free high frequency light for reduction of eye strain.</li> <li>12. It should have external fuses for protection against power surge.</li> <li>13. Manufacturer/Item should be ISO/FDA certified.</li> </ol>
26	<b>Bed Side O2 flow meter</b>	<p>Usage Oxygen Cylinder  Flow Rate 0-15 L/min  Tube Cover Material Poly Carbonate  Body material Brass  Accuracy (Flow rate) +/- 5%  Add-ons Humidifier Bottle</p>



31	<b>Portable Mobile Light</b>	With protective fire resistant ESG safety glass for scratch proof, fast disinfection process, protects UV and IR rays and improve light penetration. With special European design for ventilation of heat. Body is made of high quality fire resistant polymer.
32	<b>Weighing Machine</b>	Large LCD Display. Max. Capacity : 20 Kg. Graduation : 5 gm. Tare weight function : Hold function for recording weight. Automatic switch off, Battery included.
33	<b>Video Bronchoscopy</b>	Slim design measuring only 5.3mm in diameter with a 2.0mm instrument channel Ergonomically designed grip to enhance scope maneuverability and handling Scope ID function stores individual scope information such as number of procedures performed When used with a Exera II 180 processor and light source, you have the benefit of Narrow Band Imaging (NBI) to enhance visualization of mucosal morphology Compatible with CV-180, CV-160, CV-140 and CV-100 video processors Specifications: Diameter: 5.3mm Working Length: 60cm Instrument Channel: 2.0 mm Field of View: 120 degrees Angulation Range: Up: 180, Down: 130
34	<b>Trolley, instrument</b>	<b>Instrument Trolley (SS Framework and SS Shelves With SS Bowl &amp; Tray)</b> Overall approx dimension: 680mm (L) x 450mm (W) x 900mm (H). Strong round stainless steel tubular frame work. Mounted on four synthetic body castors 125mm wheel dia, two with brake & two without brake. Two stainless steel shelves fitted with three side protective railings. Stainless steel bowl & tray. Supplied in knocked down condition.
35	<b>Trolley, dressing</b>	Dressing Trolley (SS Framework and SS Shelves With SS Bowl & Bucket) Overall approx dimension: 1010mm (L) x 510mm (W) x 900mm (H). Shelf dimension approx: 750mm (L) x 500mm (W). Strong round stainless steel tubular frame work. Mounted on four synthetic body castors 125mm wheel dia, two with brake & two without brake. Two stainless steel shelves fitted with four side protective railings. Stainless steel bowl & bucket. Supplied in knocked down condition.
36	<b>Trolley for linen (Solid &amp; Dirty)</b>	Soiled Linen Trolley, (SS Framework) Overall approx dimension: 910mm (H) x 510mm (W) dia. Strong stainless steel tubular frame work. Mounted on three synthetic body castors 125mm wheel dia, without brake. Supplied with one bag made of synthetic material.
37	<b>Trolley, general purpose</b>	1. Track Gauge (Nominal) : 1676 mm 2. Pay load capacity: 1000 kg. 3. Seating capacity: 3+3 = 6 persons. 4. Self weight: 350 kg (max.) 5. Speed: 30 kmph (Min.) 6. Gear system: 3 speed, 10, 20 & 30 kmph. 7. Reverse speed: 5 kmph (min.) 8. Wheel base: 1500 mm (Min.) 9. Lighting arrangement: Head and tail lamps shall be provided to both the front and rear side of the trolley.
38	<b>Bed Side table/ Bed Side Locker</b>	Polymer Moulded Locker with one drawer one cabinet and tray . 2. Overall Dimension 480L x 480 W x 750 H

39	Crash Cart	Crash Cart (Stainless Steel Framework) Overall approx dimension: 960mm (L) x 500mm (W) x 1550mm (H). Strong stainless steel tubular frame work. Six removable bins in different colors. Two polystyrene lockable storage units with three drawers each. Two top drawers have different sized containers. Mounted on four synthetic body castors 125mm wheel dia, two with brake & two without brake. Four corner buffers. Stainless steel shelves, stainless steel IV rod and stainless steel handle. Powder coated oxygen cylinder holder. Cardiac massage board. Supplied in knocked down condition.
40	Cardiac/feeding Table	Cardiac Table /Over Bed table 1. Overall size: 1120 mm X 450 mm X 965mm (LxWxH) 2. Top Size: 760 mm LX 450 mm W 3. Top made from 12 mm MDF with 0.6 mm thick laminate pasted on it. 4. Beading on all four side of top. 5. Tubular frame work with 50 mm Dia swivelling caster. All without brake
41	Hydraulic Stretcher	Specifications: " The Urgencies Stretcher Trolley is a steel structure that has an adjustable height made possible through a hydraulic pump system using a pedal. " The headrest is adjustable by rack system. " Its mattress is fixed on plywood and is upholstered with skay. " The handrails are retractable. " It comes with an IV support. Steel structure with epoxy coating " Height adjustable by hydraulic actuator " Adjustable head with gas spring (70º) " Fixed mattress, high density foam rubber, upholstered in antibacterial vinyl fabric, fireproof (M2) " Table rails " Support of sera adjustable in height " Rights Ø 125mm, two with brake
42	Wheel Chair	A premium quality chrome finished steel frame is used in this wheelchair, which makes it sturdy and perfect for daily use. This wheelchair comes with PVC upholstery which is easy to clean. Fixed PVC padded armrest, durable plastic footrest with calf strap, 8" Solid composite castors and 24" spoke wheels make the wheelchair very comfortable for the user. This wheelchair comes with a detachable commode pot and soft commode seat. Seat has got U-cut for easy cleaning. The wheelchair has hand brakes on the right side. Brakes are easily accessible to the user. The width of wheelchair is 0.65 m that can easily pass through lift door and bathroom door (generally the bathroom door width is 0.7 m)
43	ICU Instrument Set	
44	Height Machine	Stature Scope (Height) to be measured: 0-200cm = 78 inches / 2 Meters. (Only Measures In Centimeters) Division value : 0.1mm Tape : Stainless Steel Enclosure Case : ABS Plastic Size : 14.5 x 11.25 x 3.5cm (without stretch) Weight : 131 g. SHRIH Height Measuring Weighing Scale (White) Sales Package Height Measuring Scale Color White
45	Resuscitation kit with Trays	Resuscitation Kit for adult, neonatal, paediatric. If you are looking for <b>adult resuscitation kit</b> , <b>resuscitation kit for neonatal</b> , or <b>paediatric resuscitation kit</b> Resuscitation kit contain : Face Mask/ Nasal Cannula. Laryngoscope Set. Hand Suction. Silicone Mask Airways. Mouth Opener Infant Ambu Bag in a Carry case/ Resuscitation kit Bag. Please ensure and check contains of Kits

46	Dressing Drum SS	Material: Stainless Steel Dressing Drum 9"*11"
47	Percussion Hammer	Handle Material: Steel Handle 8" Material: stainless steel Finishing: mirror polish
48	Refrigerator	<ul style="list-style-type: none"> <li>• Single Door, * Freezer Top mounted, *190 L Capacity, 5 Star, * Toughened Glass</li> <li>• Door Lock, *Removable Gasket, * Reciprocating Compressor,</li> </ul> <b>Weight 31 kg. . Height 1155 mm, Width 531 mm, Depth 620 mm, Freezer Mounted Top, Handle Type External, Product Warranty:- 10 years, Compressor Warranty: 10 years, Other Features:- Inbuilt Stabilizer, Power Consumption:- 212 w</b>
49	Foot Step	Single or Double steps with non-slip strip. 2. Mounted on stump legs. 3. Overall Dimension (Double) 460 L x 460 W x 460 H . 4. Overall Dimension (single) 460 L x 230 W x 230 H.
50	Trays for Procedures	Brentwood produces custom procedure trays that provide superior quality and protection. Our designers develop sterile and non-sterile medical trays that meet customer specifications. Our custom procedure trays reduce overall packaging cost, eliminating the need for individual component packaging. Everything the healthcare professional needs to complete a procedure fits neatly and securely in one kit.
51	Walker	<p>Walking training device for improving postural alignment while walking, overcoming musculoskeletal impairments and for improving mobility anterior support with less energy consuming</p> <p>DIMENSIONS, MATERIAL &amp; WEIGHT Material frame: Mild steel tubular frame Epoxy powder coated Height of walker with standard wheels (cm) :NA Height of walker with activity wheels (cm): NA Distance between hand grips (cm): 34 Frame width (Cm) : 58 to 60 Frame length (cm) : 52-59 Maximum user weight (kg): 100 Frame weight (kg) : 2.5 to 3.0</p>
52	Nerve stimulator	<p><b>Specifications</b></p> <ul style="list-style-type: none"> <li>• Twitch: 1 Hz: 1 pulse per second.</li> <li>• Tetanus: 50Hz: 50 pulses/second,100Hz:100 pulses/second.</li> <li>• Double Burst: 2 – 50Hz Trains of 60ms duration &amp; 750ms apart.</li> <li>• Train-of-Four: 2 pulses per 2 seconds (on demand)</li> <li>• Output Current: Adjustable 0-50mA.</li> <li>• Output Voltage: 450 volts ( ±10%)</li> </ul>
53	Chest vibrator	Vibration Is Performed During Chest Physiotherapy. One of the fundamental techniques used to perform postural draining is called vibration. This airway clearance technique, coupled with chest percussion, is applied during therapy to help COPD patients clear mucus from their airways. Vibration helps relieve COPD by gently shaking mucus and secretions into the large airways, making them easier to cough up. This is helpful because coughing is one of effective

		<p>means of airway clearance.</p> <ul style="list-style-type: none"> <li>AC220V, 50/60 Hz, 20W(Hot), 18W(Cool)</li> </ul> <p>Max Temperature: 55 degree C</p> <p>Size: 300*110*120</p> <p>Speed: 4500rpm</p>
54	Water Boiler	<p>Boiler specification Medium: hot water Boiler principle: 3-pass wet back fire tube boiler Max. capacity : 2320 kW Design pressure (hot water) : 3 bar Design temperature : 110 °C Accessories: Following accessories are delivered with the boiler • pressure gauge • thermometer • drain valve</p>
55	Diagnostic set & otoscope (ENT & EYE)	<ul style="list-style-type: none"> <li>ENT Complete Diagnostic Set with Otoscope - with warranty.</li> <li>Set comes with Chrome Plated Tongue Depressor with Holder, Laryngeal Mirror 22mm Dia. Post Nasal Mirror 18mm, 2pc Spare Lamp.</li> <li>2.7v Ophthalmoscope Head. 2.7v Otoscope Head with 3 reusable Aural Specula.</li> <li>Lens selection wheel permits choice of corrective lenses from 9 to +20 and) to -20 Diopters.</li> </ul>
56	Fetal Doppler	<p>1. Built-in speaker, 2. Three working mode: Real time FHR display Mode, Averaged FHR Display mode and Manual Mode. 2. LCD Screen Battery status indication 3. Auto shut off if there is no signal within 1 minute. 4. High sensitive Doppler probe, fetal heart sound can be heard clearly for pregnancy more than 12 weeks. 5. Low consumption, two AALRG battery can last more than 8 hours for normal use.</p>
57	IV Stand SS/ Saline Stand	<p>Saline Stand ( MS Framework &amp; SS Rod With Two Hooks ) - Height adjustable</p>
58	Temp Probe (Nasal/Rectal)	<p>Nasal/ Rectal Temperature Probes are ideal for measuring nasal air temperature as an indicator of respiration. Designed to operate over the range 0 - 50°C, they are well suited to applications such as biomedical temperature monitoring requiring repeatability, high sensitivity and rapid response.</p>
59	Monitor Stand	<p>MS trolley with four height adjustable shelves and one fixed top shelf. Shelves with railings. One draw with lock . 2. Trolley provided with socket to receive 5/15 amp 230v AC has 6 output base with off/on switch . 3. Mounted on four swivel castors two with locks. 4. Overall Dimension 680 L x 700 W x 1570 H.</p>
60	10 Ltr O2 Concentrator	<p>Flow rate 1-10 LPM, with an increment of 0.5 LPM  High / Low voltage Alarm Sensors  PSA (Pressure Swing Adsorption) Technology  Inbuilt Nebulizer and Timer (10 MIN to 5 HOURS)  Alarms for Low Oxygen purity, Low pressure, Power Outage and defective information is displayed on the screen  HEPA filter and Bacteria filter from Italy. Five-stage filters keeps away most of impurity, bacteria and PM (particulate matter) 2.5 microns.  Easy to store, transport and deliver  Oxygen Purity : 93%(+3%,-3%)  Dual bottle with dual Flow Meter  Oxygen Concentrator 10 ltrs Mini  Mechanical flow regulator with an interval of 0.5L/MIN.  Big displacement compressor ensures 30% longer life span, suitable for 24 hours continue running with, service Interval Indicator  Noise reduction technology &lt; 50db</p>

		<p>Re-settable Circuit breaker  PAN India Service Network  When the oxygen concentration is &lt;90%, the oxygen concentrator's alarm will trigger.*  When oxygen concentration fault conditions (over heat alarm, power outage alarm), oxygen concentration stops running, the output of oxygen flow rate is 0L/min*</p>
61	<b>Ward Bed (Hospital Bed)</b>	Plain bed with MS Head / Foot Bows & Drop side Rails, Mounted on four stump legs, Overall Dimension 1980L x 900 W x 600 H
62	<b>General Instrument Set</b>	
63	<b>Baby Cradel</b>	<p>Mild steel tubular pipes, Stand mounted on rubber shoes, Wire mesh hanging cradle  Pre-treated and epoxy powder coated finish, Knock down construction  Size: 915 x 381 x 991mm</p>
64	<b>Semi Auto Analyzer</b>	<p>Technical parameters  Absorbency range: -0.3-3.0Abs  Resolution: 0.001Abs(display),0.0001 Abs(inner calculation)  Light source: Halogen lamp</p> <p>Wavelength: 340,405,500,546,578,620nm + 2 free positions  Stability:≤0.005A/30min  Half-bandwidth: ≤12 nm  Temperature control: Room Temperature, 25, 30, 37.  Temperature accuracy: ±0.1  Colorimetric cell: 30µl quartz flow cell  Injection: 0~6000ul  Cross Contamination: ≤1.0%  Storage: 500 test items and 10000 test results.  Interface: Standard RS232 interface, 4 USB interfaces, Ethernet interface  Display: 7"color LCD  Print: Built-in high-speed thermal printer, and connect external printer.  Processor: Embedded high-speed processor  Weight: 10kg  Dimension: 410(L)×340(W)×150(H)mm  Power Supply: 100~240VAC, 50HZ/60HZ</p>
65	<b>Semi Electrolyte Analiser</b>	<p>1 Parameter Reported: Na, K, Cl 2 Measuring Range: Na: 20-200 mmol/L, K: 0.4-40 mmol/L, Cl: 30-200 mmol/L 3 Sample Type: Whole Blood, Serum, Plasma, Urine 4 Analysis Time: Upto 60 sec.  5 Data storage: 125 patients 6 Reproducibility: Na- Upto 3%, K- Upto 3%, Cl- Upto 3%. 7 Type: Table Top 8 Cost &amp; Benefits: Cost per test for 2500 tests per month should be mentioned and it should be frozen for 5 Years. 9 Electrodes should be separate for Na, K &amp; Cl and should be maintenance free. 10 Sample Volume: Upto 100 µL 11 It should have a RS-232 serial port for computer connectivity. 12 It should have automatic calibration as well as user controlled manual calibration option. 13 Stand-by mode should be user controlled as well as automatic. 14 Should be supplied with offline pure sine-wave UPS which will provide minimum 1 hour backup. 15 Power Supply: AC: 220V ± 10V, 50 Hz. 16 Equipment should be CE marked / USFDA approved. 17 Should be provided with minimum 2 years warranty that covers all the spare parts as well as electrodes and tubings. The necessary PM kits within the warranty period should also be provided by the bidder. 18 All the reagents for first 6 months should be provided along with the equipment taking into consideration 2500 tests per month.</p>
66	<b>Semi Urine Analiser</b>	<p>1 It should have test parameter pH, Nitrite, Glucose, Protein, Blood, Specific gravity, Bilirubin, Urobilinogen, ketone, Leucocytes 2 It should have Throughput 240 samples/hr with three</p>

		different mode like quick, one by one, and general modes. 3 It should be on the principle of dual wavelength reflectance photometer. 4 It should have display of LCD Interface 5 It should have memory capacity 1000 samples. 6 It should have in built printer and a RS 232 port for Interfacing 7 It should have ambient temperature condition 10C-30C 8 It should have light source super high luminosity lamp, 9 Power AC 230V+-10%, 50hZ And power dissipation -45 VA 10 It should not be more than 5 kg Approx and Dimension 394 mm (w)x367 (D) x160mm (H) approx. 11 It should follow international standard /safety requirement, CE/USFDA approval. 12 One year comprehensive warranty should be provided for the quoted model and company should provided technical support, required spare parts and consumables for five years after warranty period. 13 Demonstration compulsory and training to MEC Engineers and laboratory staff. 14 Operating and details services manual should be provided. 15 Power supply : 230V+15%, 50hz+/3% 16 Tropicalisation : Operating temperature up to 40°C, Storage up 60°C Relative humidity up to 90% non condensing.																
67	<b>Immune Assay Portable</b>	Product specifications Approx. dimensions (mm): 600 x 750 x 1,000 Approx. weight (kg): 10-60 Consumables: Reagents (cartridges, test strips, etc.), reaction cuvettes Price range (USD): 4,278 - 339,000 Typical product life time (years): 5-7 Shelf life (consumables): Reagents: 1-2 years																
68	<b>Semi Coagulation Analiser</b>	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Latest photo-optical clot detection technology is better than photo-mechanical technology</li> <li><input checked="" type="checkbox"/> No stirrers/bars should needed to improve accuracy and reduce errors and costs</li> <li><input checked="" type="checkbox"/> Lower reagent volume (e.g. 50ul for PT) should be considered as it significantly reduces cost per test allowing patient to benefit from low charges</li> <li><input checked="" type="checkbox"/> LED technology should be preferred over standard halogen lamps due to their long life</li> <li><input checked="" type="checkbox"/> Touch screen interface for user convenience is now a days the standard</li> <li><input checked="" type="checkbox"/> Automatic optical start is highly desirable as a dedicated special pipette poses several operational and accuracy challenges</li> <li><input checked="" type="checkbox"/> At least 10 sample and 3 reagent positions for incubation must be there</li> <li><input checked="" type="checkbox"/> Results in INR, Ratio, Quick % are preferable</li> <li><input checked="" type="checkbox"/> Maintenance free instrument with no moving parts is considered better</li> <li><input checked="" type="checkbox"/> Compatible with assays such as Dimmer is particularly useful feature</li> <li><input checked="" type="checkbox"/> Memory of at least 100 patient results must be there</li> <li><input checked="" type="checkbox"/> Optional printer connectivity should be there</li> </ul> Supports PT, APTT, FIB, TT, D-Dimer Testing etc																
69	<b>CBC- 3P (CBC Machine 3 Part)</b>	<table border="0"> <tr> <td>Sample method</td> <td>Closed and open tube sampling with automatic sample rotor</td> </tr> <tr> <td>Parameters</td> <td>20 parameters, including 3-part WBC differential: WBC,LYM#, MID#, GRA#, LYM%, MID%, GRA% RBC, MCV, HCT, HGB, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PCT, PDW-CV, PDW-SD</td> </tr> <tr> <td>Chambers</td> <td>3 chambers for diluting whole blood and counting; 1:MIX, 1:RBC, 1:WBC</td> </tr> <tr> <td>Reagent system</td> <td>Isotonic Diluent, Lyse, Cleaner</td> </tr> <tr> <td>Aperture diameter</td> <td>80 ìm (RBC/PLT), 100 ìm (WBC)</td> </tr> <tr> <td>Throughput</td> <td>60 tests/hour</td> </tr> <tr> <td>Sample types</td> <td>Human(general), male, female, baby, toddler and child (built-in reference ranges)</td> </tr> <tr> <td>Clog prevention</td> <td>High voltage pulse on aperture in each analysis</td> </tr> </table>	Sample method	Closed and open tube sampling with automatic sample rotor	Parameters	20 parameters, including 3-part WBC differential: WBC,LYM#, MID#, GRA#, LYM%, MID%, GRA% RBC, MCV, HCT, HGB, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PCT, PDW-CV, PDW-SD	Chambers	3 chambers for diluting whole blood and counting; 1:MIX, 1:RBC, 1:WBC	Reagent system	Isotonic Diluent, Lyse, Cleaner	Aperture diameter	80 ìm (RBC/PLT), 100 ìm (WBC)	Throughput	60 tests/hour	Sample types	Human(general), male, female, baby, toddler and child (built-in reference ranges)	Clog prevention	High voltage pulse on aperture in each analysis
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Clog prevention	High voltage pulse on aperture in each analysis																	

		cycle; chemical cleaning; high pressure backflush of aperture with Cleaner reagent.
	Cleaning procedure	High-voltage burst of the aperture, high-pressure back-flush, chemical cleaning of the aperture using Cleaner reagent.
	Quality control	6 QC levels, QC parameters include: mean, $\pm$ range, SD and CV for all measured and calculated parameters, 16- and 64-day Levey-Jennings charts, separate QC database.
	Calibration	1 or 3-measurement automatic and manual (factors) calibration of WBC, HGB, RBC, PLT, MCV, RDW and MPV absolute. Independent calibration of pre-diluted mode.
	Multi-user feature (advanced feature)	3-level multi-user operation with selective privilege levels, user identification with ID and password.
	User interface	Easy-to-use, menu driven user interface with 6 software buttons (with graphic icons), 6 hardware function buttons, cursor and numeric keys.
	Languages available	English, German, Hungarian, Arabic, Bulgarian, French, Greek, Indonesian, Polish, Portuguese, Romanian, Russian, Slovakian, Spanish, Turkish, Vietnamese
	Data capacity	Maximum 5000 results with RBC,PLT, WBC 3-part histogram
	Host computer interface	USB B port or RS-232 serial link.
	Data back-up method	USB mass storage device; Lab data management software.
	Software upgrade method	USB A port using USB mass storage device
	Printer interface	USB with support for HP printers, color and monochrome printout.
	Built-in printer	"Easy Paper Operation" thermal printer module, full report with histograms
	Display	320x240 -dots, high-contrast, backlit, color graphics LCD
	Keypad	29 foil keys + separate START button, red/green/orange machine state light.

		<p>External keyboard      Standard PS/2 compatible or USB</p> <p>Power requirement      12VDC, 6A, 72W max. operating power.</p> <p>Power supply unit      External, auto-ranging power unit for 100-120 or 200-240 VAC, 50-60Hz.</p> <p>Operating temperature      59-86 °F (15-30 °C). Optimal temperature is 77 °F (25 °C).</p> <p>Dimensions (W x D x H)      350 X 385 X490 mm</p> <p>Net weight      15 kg.</p>
70	Centrifuge	<p>SKU : LA.CE.CE.273056</p> <p>Type of Product : Laboratory Centrifuge</p> <p>Capacity : 400</p> <p>Rotor Capacity (ml) : 8x15 ml</p> <p>Type of Head : Swing Out Head</p> <p>No. of Tubes : 8</p> <p>Max. Speed (RPM) : 5250</p> <p>Max. RCF : 3600</p> <p>Digital Timer Range : 0-60 minutes</p> <p>Supply: 220- 240 Volts 50 Hz Single Phase.</p> <p>Weight : 29 kg</p> <p>Dimensions (mm) : 365 x 415 x 350</p>
71	Microscope	<p><b>Microscope Parts &amp; Specifications</b></p> <p>The Functions &amp; Parts of a Microscope.</p> <p>Eyepiece Lens: the lens at the top that you look through, usually 10x or 15x power.</p> <p>Tube: Connects the eyepiece to the objective lenses.</p> <p>Arm: Supports the tube and connects it to the base.</p> <p>Base: The bottom of the microscope, used for support.</p>
72	Rotary Shaker	<p>Minimum Order Quantity: 1 Piece., Automation Grade: Automatic., Operating Voltage: 220 - 240 Volts., Volume Liter: 18 Ltr (max.), Display: 4 inch Large LCD Display., Variable Speed: 20 - 300 RPM., Shaking Amplitude: 40 mm., Speed Control: VFD.</p>
73	Incubator	<p>1 Should be sturdy rigid and having aesthetic look. 2 Construction and fabrication on fully automatic CNC machines for giving consistency in performance and aesthetic look. 3 High quality insulation between inner and outer wall. 4 Full length inner acrylic door with roller type latch for monitoring without disturbing inside temperature. 5 (Temperature range 350 C above ambient to 600 C with temperature accuracy <math>\pm 10</math> C. ) Temperature range ambient + 5 0 C above ambient to 600 C. 6 Power supply :- 220V AC + 25%,47 TO 53Hz,Approx.400 Watt 7 Temperature should be controlled by best quality thermostatic control and digital display. 8 Inner chamber made of stainless steel (S. S. 304) and outer chamber M.S. with powder coating. 9 Inner dimension 45x45x45 cm. 10 Accessories:- Suitable thermometer having 0.10 C 11 3 shelves Thermometer access hole to display inside temperature. Digital control and digital display with soak timer.</p>

74	<b>Small Autoclave Lab</b>	<p>Overall External Dimensions WxLxH (mm) 508x362x550  Chamber Dimensions <math>\phi</math> x L 254x476  Autoclave Weight (Kg.) : 38  Chamber Volume : 23 Liter  Cold Cycle Time : 16 min.  Hot Cycle Time : 12 min.  Number of Trays :4  Standard Cassettes Capacity :3 full / 3 half  Tray Dimensions WxHxD (mm) : 168x20x414  Voltage (V) &amp; Frequency (Hz) : 230V &amp; (50/60 Hz)  Power (W) &amp; Current (A) : 10A &amp; 2200W</p>
75	<b>Hot Air Oven</b>	<p>Temperature Range : 5°C above ambient to 300°C maximum  2. Test space volume 125 Liters  3. Temperature Accuracy <math>\pm</math> 2°C  4. Temperature Uniformity <math>\pm</math> 1°C  5. Controls: PID Controller/Manual  6. Rte of Heating 1,2,3,4,5  7. Temp Display LED Display  8. Sensor PT-100  9. Heating Element As per Standard  10. Safety device Over temperature protection, Electric leakage breaker Temperature safety as per DIN 12880 Class 3.1  11. Exterior Chamber MS powder coated  12. Interior Chamber 304 stainless steel  13 Insulation :Mineral Wool  14. Doors : Solid doors w/ silicone rubber gasket &amp; lock  15. Shelves 2 – 3 Stainless steel shelves (Removable)  16. Air Circulation Forced air circulation  17. Power Supply 220 Volts  18. Optional - Dot Matrix Printer interface - Temperature chart recorder - PLC Controller - Stainless steel outer cabinet - Audio / visual alarm - IQ, OQ, PQ and DQ documentation - Extra shelves - Heating Thermostat - NABL Certification - Manufacturer calibration certificate.</p>
76	<b>Pipettes</b>	Micro Pipettes fixed and variable size
77	<b>2 Body Mortuary</b>	<ul style="list-style-type: none"> <li>• Capacity: - 1, 2, 3, 4, 6 Body storing Capacity under cool conditions to prevent decomposition.</li> <li>• Chamber Structure : - Double Walled unit, duly made from thick stainless steel sheets. Outer made from SS 202 and inner chambers made from stainless steel 304 grade material, which is durable in life.</li> <li>• Insulation: - the Gap between the walls filled with Puff insulation for long term temperature maintain. There is 60 to 90 mm thick PU insulation provided in chambers.</li> <li>• Stretchers: - removable stretchers are provided with chamber, these stretchers are made from 304 grade ss material. For easy handling.</li> <li>• Doors:- Doors covered with double walled door made from thick stainless steel 304 grade. provision of following things in doors. Magnetic Gasket, Lock provision, Handle Provision.</li> <li>• Controller: - unit is controlled with Digital Temp Indicator cum controlled which is microprocessor based, these Indicators are compliance with current standards.</li> <li>• Indicators: - Provision of MCB, Fuse and Load facility in control panel.</li> <li>• Temperature: - Unit can main Temperature can maintain up to -5o degree to +8o degree.</li> <li>• Alarm : - Power failure alarm is installed in unit with battery back provision.</li> <li>• Compressor: - An energy efficient cooling unit is installed, We use ISI marked high end CFC Free compressors of Tecumseh make, conforming to latest international standards.</li> <li>• Wheels: - Mounted on Heavy Duty Rubber wheels for easy mobility.</li> <li>• Electric workability: - workable at 220V AC 50 Hz single phase, complete with cord &amp; plug.</li> <li>• Stabilizer: - Supplied with Voltage Stabilizer for durable life of machine.</li> <li>• Inside Lighting: - Provision of LED light provision while opening the door.</li> </ul>

78	<b>120 L Vertical Autoclave(CSSD)</b>	<table border="0"> <tr> <td>Application</td> <td>Hospital</td> </tr> <tr> <td>Chamber Volume</td> <td>120L</td> </tr> <tr> <td>Material</td> <td>Stainless Steel</td> </tr> <tr> <td>Shape</td> <td>Vertical</td> </tr> <tr> <td>Mount Type</td> <td>Floor Mounted Autoclave</td> </tr> <tr> <td>Chamber Dimensions</td> <td>450x750</td> </tr> <tr> <td>Temperature Range</td> <td>upto 134 deg C</td> </tr> <tr> <td>Pressure Range</td> <td>upto 30 PSI</td> </tr> <tr> <td>Automation Grade</td> <td>Fully Automatic</td> </tr> <tr> <td>Country of Origin</td> <td>Made in India</td> </tr> <tr> <td>Minimum Order Quantity</td> <td>1</td> </tr> </table>	Application	Hospital	Chamber Volume	120L	Material	Stainless Steel	Shape	Vertical	Mount Type	Floor Mounted Autoclave	Chamber Dimensions	450x750	Temperature Range	upto 134 deg C	Pressure Range	upto 30 PSI	Automation Grade	Fully Automatic	Country of Origin	Made in India	Minimum Order Quantity	1
Application	Hospital																							
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Automation Grade	Fully Automatic																							
Country of Origin	Made in India																							
Minimum Order Quantity	1																							
79	<b>Multi Purpose Stretcher</b>	<p><b>Construction:</b> High quality medical grade stainless steel. <b>Upholstery:</b> Manufactured in line with medical devices directive using high quality, antibacterial, antifungal, and fire retardant vinyl, without edge stitches, <b>Position:-</b> Back raise Inclination: 0 / 60°, adjustable by telescopic mechanism, <b>Caster:-</b> Six 5" casters with brake, <b>Max Load:-</b> 150 kg, <b>Net Weight:-</b> ±46 kg  <b>Dimensions (mm)</b>  (L) 1990 x (W) 640 x (H) 1050</p>																						
80	<b>IR Thermometer</b>	<p>Non-Contact Infrared Thermometer-Measuring site: Forehead 33 degree C +/- 1 degree C (91.4 degree F) or lower to 43 degree C +/- 1 degree C (109.4 degree F),Accuracy of measurement:0.2 degree Celsius/Fahrenheit or better, Display resolution 0.1 degree C/0.1 degree F, Measuring distance:5 cm or better Display Type: LED or LCD display, Product certification: Product should be USFDA approved with 510k number and CE certified issued from notified body, Manufacture Standard: ISO 13485 certified.</p>																						
81	<b>Computer</b>	<ol style="list-style-type: none"> <li>1. Processor :- 6th Generation Intel Core i5 (Quad Core, 3.20GHz) or higher processor</li> <li>2. Cache :- 6 MB L3 shared Cache or higher</li> <li>3. Chipset Intel original chipset Q150 or better</li> <li>4. Memory 8 GB (1x8GB) 2133 MHz Single/Dual Channel DDR4 SDRAM (Expandable to 32 GB or higher)</li> <li>5. Hard Disk Drive 1 TB or higher SATA Hard Drive</li> <li>6. Optical Drive 16X DVD±RW or higher DVD Drive</li> <li>7. Graphics Integrated Intel HD Graphics 530 or better</li> <li>8. External I/O Ports 4 or more USB 3.0 ports , 4 or more USB 2.0 ports, One VGA port, One RJ 45 Connector, One or more DVI/ HDMI/ Display Port, 1 Mic-in &amp; 1 Headphone out (front); 1 Mic-in/Line-in &amp; 1 Line-out (rear).</li> <li>9. Expansion Slots One or more Full-Length PCI Slots, One or more PCI express x1 slots, One or more Full length PCI x16 slots</li> <li>10. Network Interface Integrated 10/ 100/ 1000 on board Integrated Gigabit Ethernet network interface on system board</li> <li>11. Keyboard &amp; Mouse USB Standard Keyboard and Optical 2-button USB scroller mouse (same make as desktop computer)</li> <li>12. Monitor 21.5 inch Widescreen Flat Panel Display with LED backlights, Resolution: 1920x1080 Pixels at 60 Hz, or better compatible with the desktop computer OEM of monitor should be same as that of desktop computer TCO Compliant</li> <li>13. Security Support for chassis padlocks or panel lock</li> <li>14. Operating System 64 bit Genuine Windows 10 Professional (latest service pack) with following features: Enterprise Mode Internet Explorer (EMIE)• Remote Desktop• Client Hyper-V• The Operating system specified must be made available with media, documentation and certificate of authenticity</li> <li>15. Manageability Tool less chassis for easier upgrades and repairs</li> <li>16. Power supply 240 Watt or higher with standard efficiency. ENERGY STAR compliant, Active PFC</li> <li>17. Form Factor Mini Tower/ Tower Model</li> <li>18. Warranty One year on site comprehensive warranty</li> <li>19. Operating System Certifications MS-Windows certification</li> </ol>																						

		<p>20. Compliance and Certification Computer manufacturer must be ISO 9001 and ISO 14001 certified.</p> <p>21. The make and model of the desktop computer must have UL, FCC and MS windows 10 Professional logo certification ROHS compliance.</p>
82	Printer B&W	<p>Package Dimensions : 40 x 28 x 25.2 cm; 5.25 Kilograms  Item model number: SL-M2021, Processor Brand: HP  Processor Type : Xeon Silver 4108  Max Print speed Monochrome: 20 ppm  Ink Colour : Black and White  Printer Output Type : Monochrome  Printing Technology : Laser  Supports Dual Sided Printing : Yes  Resolution : 1200 x 1200 DPI  Special Features : Single Function  Mounting Hardware : Printer, Resolution : 1200 X 1200  Batteries Included :No., Batteries Required : no  Connector Type: USB, Has Auto Focus: No, Programmable Buttons: No  Item Weight : 5 kg 250 g</p>
83	Printer All in 1	<p><b>All-in-One Printer Specifications</b></p> <p>Functions. Print, copy, scan.  Multitasking supported. No.  Print speed black (ISO, A4) Up to 7.5 ppm.  Print speed color (ISO, A4) Up to 5.5 ppm [6]  First page out (ready) Black: As fast as 15 sec.  Duty cycle (monthly, A4) ...  Recommended monthly page volume. ...  Print technology.</p>
84	Computer Table	<p>Width: 750mm, Depth: 400mm, Height: 750mm The table shall be supplied with steel members duly welded and rigidly fixed table top and provided with a slideable keyboard tray, modesty panel and footrest. The frame shall comprise of hollow rectangular M.S. section of size 50x25x1.6 mm thickness. Two side member of the frame identical in shape shall be joined with welding at bottom with a footrest (hollow rectangular M.S. section of size 50x25x1.6mm thickness) angularly welded, and at the top in front side welded with a angle size 17x17x3mm. And at the back on the top side of the frame, a modesty panel of size 200x17x0.8mm thick CRC sheet shall be welded. Thus making the frame rigid in construction. The keyboard tray shall be of size 710mm(front width)x 300mm(depth) approximately is to be provided with end fittings mad from minimum 2mm thick MS steel mounted on either side and the keyboard tray shall be easily slideable, provided with two telescopic channels with balls. Modesty panel of size 200x17x0.8mm thick of length made from CRC sheet conforming to IS:513/2008 covering full backside of the said frame &amp; shall be suitably welded with two sides members of the frame, in such a way that it"s top surface having 17mm width, flushes with top surface two side members and joining front angle member. Four level screws, having smooth bottom flat surface of minimum 50mm diameter, shall be welded under the bottom of two said side members of the frame; capable to adjusting level up to 10mm in height. All exposed steel sections shall be painted with black in colour with powder coating 40-50 micron thickness. Table top shall be of MDF board or pre-laminated particle board having dimensions as specified in the description(750x400) with tolerance of+/-5mm in length and width. The top shall be extended 50mm approximately on all sides over the steel frame. Height of the table shall be 750mm+/- 10mm from the floor of the top surface. The MDF board used for top, keyboard tray should be of minimum density of 750kg/m<sup>3</sup> and shall be of 18 mm thickness with laminated sheet of 0.6mm thick. Thew top shall be of grey colour. Bottom side of the board should have balancing sheet of requisite thickness of white or of same colour as top laminate. Only ISI marked MDF board and laminate should be used. Pasting of laminates should be done with the help of post forming machine having air pressure &amp; temperature control.</p>

85	Nurshing Table	Overall Dimension 72x23x30 Height Adjustable fix height Castor Diameter NA Mm Warranty 1 year Minimum Order 2 Quantity Usage/Application hospital usage Size 72x24x36 Brand standard steel Color white
86	Revolving Stool	1. Height adjustable stool with SS / upholstered top 2. Mounted on 3 or 4 stump legs 3. Overall Dimension top Dia 294 mm 458" 635H.
87	Revolving Chair	1. Adjustable facility of Height, Back & leg section, Trendelenburg / Reverse 2. Cable handset 3. Hand rests, footrest, IV rod, upholstered 3 section top mounted on four castors 4. Overall Dimension 1830L x 610W x 610" 762H.
88	3 Sheater Chair	Color : Silver, Material: Stainless Steel, No. of Seater : 3 , Number of Legs : 4 nos. Surface Treatment: Polished.
89	Patient Couch	1. Top is upholstered and covered with washable synthetic material. 2. Three individual drawers and three cabinets with separate door at bottom. 3. Size- 1830 (L) x 510 (W) x 810 (H)
90	Waste Scherreader	Motor Siemens IE3-1400RPM Power 2.2kW / 3HP Voltage 430V/50Hz Cutting chamber 200 X 240 mm Cutting blades thickness 10mm Equipment Dimensions L*W*H(cm) 50 X 70 X 151 Net weight of the machine 325 kgs Cutting capacity (Per day) 200-300 kgs/h No-load running noise 53dB (A) Duty cycle (on / off) Continuous 24Hours Waste bin capacity 100 liters Spacer MOC Mild Steel Main Shaft MOC EN8 Cutting blades number 19 pieces Output particle size Uneven mixed small pieces <1sq inch Machine Color Gray and Black
91	Waste Autoclave	Capacity :- 150 Liters to 3000 Liters or more Construction: Triple walled with jacket & chamber Sterilization chamber: Stainless steel 304 / 316L Jacket: Stainless steel 304 Lid / door: Stainless steel 304 / 316L Insulation: Glass wool Boiler: Stainless steel 304 Working temperature: 121° - 134°C

		<p>Pressure: 15 to 30 psi  Door locking: Radial locking mechanism  Vacuum: Pre and post vacuum cycles</p> <p>Automation:- PLC based HMI controller, Bowie-dick and Leak test program, In-built data monitoring and recording,  Imported pressure sensors, imported temperature sensors, pneumatically operated pressure release valve.</p> <p>Safety features: Over pressure safety provisions for chamber and boiler, Low water protection in boiler, Emergency stop button.  Vacuum pump: Water ring vacuum pump, Air filter:- 0.2μ fresh air inlet filter, Water inlet:- Automatic water filling in boiler</p> <p>Standard fittings:- Moisture trap valve, Fresh air intake through micron filter, Load indicator, Electric phase indicators</p> <p>Optional:- Loading trolley</p>
92	RO Plant 500 LPM	<p><b>1.Row water feed pump</b> Type :- Monoblock Centrifugal, 2. Material of Construction: C.I, 3. Drive motor : Single Phase, 4. <b>Sand Media Filter</b> Working :- Down flow, 5. Max flow rate :- 3m<sup>3</sup>/hr, 6. Min. flow rate:- 0.5 m<sup>3</sup>/hr, 7. Working pressure: 1.5 – 3.5 kg/cm<sup>2</sup>, 8. Size:- 10"X 54", 9. Valves:- Multiport valve 25mm, 10. <b>Carbon Filter</b> Working:- Down flow, 11. Max flow rate :- 3m<sup>3</sup>/hr, 12. Min.flow rate :- 0.5m<sup>3</sup>/hr,</p> <p><b>Anti Scalant Dosing Unit</b> Capacity: 6 LPH @ 3.5 bar  <b>MICRON CARTRIDGE FILTER</b>  Quantity:- 1 sat, Flow rate:- : 3m<sup>3</sup>/hr, Rating:- 10 micron,</p> <p><u>High Pressure Pump</u>  Type :- Multistage Centrifugal, Drive motor:- Single Phase,  <b>FLOW METER</b>  Quantity : 2 nos, Type:- Glass Tube Rota mater</p>
93	Drinking RO	<p>1. Purification capacity : 50±10* Litres per hour *, 2. Max Duty Cycle : 500 liters per Day, 3. Membrane: 4 Nos, 4. 6 stages Purification : Pre-Sediment, Activated Carbon, Sediment, RO Membrane, Post Carbon, TDS Minimiser, 5. RO Membrane- 1812-75 GPD, 6. Minimum Inlet Water Pressure:- 0.3 kg/sq cm, 7. Maximum Inlet water Pressure :- 2 kg/sq cm ( if input water pressure is more than 2kg/sq cm , install, PRV before the Unit), 8. Input Voltage:- 160-300V AC (50Hz), 9. Operating Voltage:- 48V DC, 10. Input water Temperature:- Min 5 Celsius &amp; Max 50 Celsius, 11. Total Dissolved Solids (TDS):- Up to 2000 ppm, 12. Total Hardness:- 500 ppm (max), 13. Rejection of TDS:- Up to 95%, 14. Recovery :- Up to 25%, 15. Dimensions (mm):- W 485 x D 300 x H 840, 16. Net Weight:- 17.5 kgs, 17. Power rating:- 75 W.</p>
94	Biomedical Tools and Equipments	
95	Water Bath	
96	Nebulizer	
97	Laryngoscope	

98	Orthopedic Fracture Table	
99	Electrolyte Analyser (Sodium & Potassium)	
100	Orthopedics Drill (electronics), Power drill	<p>Material- Steel, Torque-6.5NM, Sterilization, Battery, Number Of Blades-2, Voltage-14.4V</p> <ul style="list-style-type: none"> <li>• Hand Piece Motor, Battery Operate</li> <li>• Drill Attachment (Jacob Chuck Type)</li> <li>• Cannulated Drill Attachment</li> <li>• Oscillating Saw attachment</li> <li>• Reamer Attachment</li> <li>• Convert Adapter for AO design Reamers</li> <li>• Convert Adapter for Quick Coupling Drill Bits</li> <li>• Charger</li> <li>• Sterilizing Rings</li> <li>• Oscillating Saw Blades</li> <li>• Battery</li> </ul>
101	Fogging Machine	<p>Technical Description  Type- Thermal aerosol pulse jet fogging machine Starting mechanism Electronic circuit with 6 volts battery  Air compressor Compact type - D C Motor for auto starting Hand pump Additional optional facility for manual starting Carburetor Diaphragm type with petal valve  Fuel consumption 1.5 ltr / hr</p> <p>Chemical consumption 25 - 30 ltr / hr  Chemical tank 4.6 ltr - H. D. P. E.  Fuel tank 1.3 ltr – aluminum  L x W x H (in mm) 1180 x 275 x 360  Weight 8.5 kg (empty) approx</p>
102	STIRRUP PUMP	<p>Normal Working Pressure- 40 PSI 2.6 bar  Dimension ( L X W XH)- 670 mm x 232 mm x 105 mm/774 mm x 235 mm x 105 mm  Weight –  2.250 kg ( Approx)/ 2.513 kg ( Approx)  (without discharge line)</p>
103	Specifications of ELISA Microplate Reader	<p>Wavelength range from 300 to 750 nm</p> <ul style="list-style-type: none"> <li>• Interference filters (slide of 4 to 6 filters)</li> <li>• Measuring range 0- 3.0 OD</li> <li>• Inbuilt microplate shaking</li> <li>• Measurement time in 10 seconds or less</li> <li>• Branded computer with Laser All in one printer: Touchscreen configuration, data analysis software with USB, Intel core I 3 Processor, LED Monitor (18.5 inches), Pre installed MS Office window, RAM 4 GB, Hard disc 500 GB.</li> </ul> <p>Technical specifications of ELISA Microplate washer</p> <ul style="list-style-type: none"> <li>• Automated buffer switching</li> <li>• Wash volume 25-3000ul/well</li> <li>• Linear shaking</li> <li>• Manifold types 8 or 16 way for parallel</li> </ul>

		<ul style="list-style-type: none"> <li>Processing</li> <li>Advanced process control system for fluid overflow</li> <li>Warranty – 1Year and 3 years AMC</li> </ul>
104	Bone holding forcep with speed lock (serrated)	Small,
		Medium
		Large
105	Hohman retractor	Small
		Medium
		Large
106	Wirecutter (maun)	Small
		Medium
		Large
107	Osteotome (cu/st)	Curved -5
		Curved -10
		Curved -15
		Curved -20
		Straight - 5
		Straight -10
		Straight -15
		Straight -20
108	Bone lever	Small
		Medium
		Large
109	Wire bender	Large
110	Wire passer with fiber handle-	
111	Wire twister a.o type	
112	Canulated reamer- 7 to 12mm	7 TO 12MM
113	Sq. Nail reamer- 2 to 4mm	2 TO 4MM

114	K-nail reamer(solid)- 7 to 12mm	7 TO 12MM
115	Plate holding forceps(serrated)	Small
		Medium
		Large
116	Bone scoop (set of 3)-	(SET OF 3)-
117	Depth gouge- 3.5/4.5mm	3.5/4.5MM
118	Bone hooke	
119	Periosteal elevator-	Small
		Medium
		Large
120	T-handle with chuck-	
121	Insert drill sleeve - 2.5&3.2mm	2.5 & 3.2MM
122	Neutral drill guide (centric acentric)- 3.5&4.5mm	3.5 & 4.5MM
123	Drill/tap sleeve - 3.5&4.5mm	3.5 & 4.5MM
124	30. Bone tap - 2.7,3.5,4.5m m	2.7,3.5,4.5M M
125	Pointed drill guide & sleeve-	GUIDE & SLEEVE
126	Kerrison punch (upward/downward)- 2,mm	(UPWARD/DOWNWARD)- 2,MM
127	Disk punch (st./downward)	(ST./DOWNWARD)
128	Reduction forcep with speed lock	Small
		Medium
129	Gouges (curved)	Small
		Medium
		Large
130	Screw driver(solid) - 3.5&4.5mm	3.5 & 4.5MM

131	Canulated instrument set- 4mm&6.5m m	4MM&6.5M M
132	Charle retractor with chain &wt.	
133	Bone Cutting Forcep - 7"D/A	7"D/A
134	Measuring Scale-	
135	Plate Bender Roller Type	
136	T-Handle For Schanz Pin	
137	Gigli Saw Handle	
138	Counter Sink - 3.5&4.5mm	3.5&4.5MM
139	Plate Bender(In Pair)- S,L	Small
		Large
140	Broken Screw Removal Forcep	
141	Bone Graft Punch- St/Angle	
142	Self Retaining Retractor- 5",6",8"	5",6",8"
143	Nerve Root Retractor - Cu/St	CU/ST
144	Ring Currettes - St/Angle	Small
		Medium
		Large
145	Bone Nibblers D/A- Cu/St	D/A- CU/St
146	Lowman Bone Holding Clamp	Small
		Medium
		Large
147	Patella Clamp Plain(Single Prong)	Small
		Medium
		Large
148	Patella Clamp With Guard (Single Prong)	(SINGLE PRONG)

149	Patella Clamp Plain (Double Prong)	(DOUBLE PRONG)
150	Plaster Cutter	
151	Electric Plaster Cutter (Manman)	(MANMAN)
152	Hammer	Small
		Medium
		Large
153	Femoral Distracter With 2threaded Rods	
154	Power Drill Manman	
155	Electronic Tourniquet(Mecktronics)-	
156	Plate&Bone Holding Forcef-6"&8"	6"&8"
157	DHS & DCS Instrument Set With Box	
158	Universal Nail Extractor	
159	Side Cutting Plier(Maun	
160	Recon Plate Bender	
161	Bone Hammer-	Medium,
		Large
162	Lane's Bone Holding Forcef-L	Large
163	L Retractor	Small
		Medium
		Large
164	Bone Awl (St.&Cu).	(ST.&CU).
165	Laminectomy Retractor Self Locking-S,M,L	Small
		Medium
		Large

166	Strong Bone Cutter (D/A)	(D/A)
167	Pointed Reduction Forceps With Speed Lock	Small,
		Medium
168	Plaster Spreader Henning's	
169	Plaster Scissors With Spring	
170	Bone File With Fiber Handle	Small
		, Large
171	Allis Tissue Forcep	SS, 6"
172	Mosquito Forceps	SS
173	Curved Artery Forceps	SS, 6"
174	Infrared Radiation Lamp	
175	Infusion Pump	
176	Protoscope	Small
		Medium
		Large
177	Oxygen Hood & Mask	

Chief District Medical Officer  
Health Officer, Keonjhar

**CHECK LIST/TECHNICAL BID FOR SUPPLY OF HOSPITAL EQUIPMENTS, [EIF]**

<b>Sl. No</b>	<b>Details of the Bidders</b>	<b>Details Description</b>	<b>Page No.</b>
1	Name of the firm / agency (Proof of Registration to be Submitted)		
2	Address of the Firm / Agency		
3	Name of the Contact person		
4	Email of the contact person		
5	Contact Number		
6	PAN Card No of the organization (Firm/Agency/Proprietor)Copy to be attached		
7	Tender Paper Cost Rs. 5000.00 (Rupees Five Thousand only) in favour of "CDMO, Keonjhar-DMF" ( non-refundable)		
8	Xerox copy of GST Registration.		
9	Xerox Copy of valid ISO/CE/ISI/FDC/GMP of manufacturer/ Distributer		
10	Copy of authorization certificate in case of distributer.		
11	Proof of at least one order copy of any hospital supply (Govt./ PSU/ PVT)		
12	Undertaking as per Annexure-B		
13	Declaration/ Undertaking as per Annexure-C		
14	Declaration of Supply period as per Annexure- D		
15	Average annual turnover of amounting to Rs. 8,00,000,00.00 (Rupees Eight Crore only) in last three financial years (2017-18, 2018-19 & 2019-20). The audit reports to be submitted for above said years. As per Annexure-E		
16	The agency should submit the Boucher item wise mentioning details specification with seal and stamp.		

  
Chief District Medical Officer  
Health Officer, Keonjhar

**Annexure-B**

**AFFIDAVIT**

I / We \_\_\_\_\_ do hereby declare that I / We have **not been de-recognized / black listed/debarred** by any state Govt. or Central Govt. organization for supply of **Not of Standard Quality (NSQ) Items / non-supply of any items / part supply of any items.**

I / We hereby agreed that the Tender Inviting Authority can forfeit the performance security amount and blacklist me / us for a period of 3 years if, any information furnished by me / us found to be incorrect and false at any stage.

I/We hereby also agreed that I/We will abide by the Tender terms & conditions. The Tender Inviting Authority has right to forfeit my/our performance security amount if I/we fail to comply with/abide by the terms and conditions.

Place:

Date:

Signature of the Authorized Signatory & Seal of the Bidder

**Seal & Signature of the Notary Public**

  
Notary Public  
District of \_\_\_\_\_

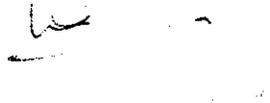
## **Annexure-C**

### **DECLARATION**

(To be filled by the Bidder)

I / We \_\_\_\_\_ do hereby declare that I / We have quoted the rate for each of the individual item I/we are submitting quotation for. The rate is inclusive of excise duty, insurance, packing, forwarding, freight, door delivery (at DHH, Keonjhar, SDH, Anandapur, SDH, Champua & Barbil CHC) and onsite Warranty upto three years (3 Years) including spare and exclusive GST (if any).

**Signature of the Bidder with seal**



**Annexure-D**

**DECLARATION**

(To be filled by the Bidder)

I / We \_\_\_\_\_ do hereby declare that I / We supply the stocks within 30 days (Supply started from 10 days and completed within 30 days) from the date of issue of the Purchase Order. I / We agreed that the Tender Inviting Authority can forfeit the performance security amount and blacklist/disqualified/debar me / us for a period of next 3 years (three years) for non-supply / part supply of the stocks within the stipulated time period.

**Signature of the Bidder with seal**

  
Chief District Medical & Public  
Health Officer, Koolibhar

**Annexure-E**

**ANNUAL AVERAGE TURN OVER STATEMENT**

**• (To be furnished in the letter head of the Chartered Accountant)**

The Annual Turnover of M/s \_\_\_\_\_ for the last 3 financial years are given below and certified that the statement is true and correct.

Sl.No	Financial Year	Turnover in Crore (Rs.)
1	2017-18	
2	2018-19	
3	2019-20	
Average Annual Turnover in Crore (Rs.)		

**Date:**

**Signature of Chartered Accountant**

**Place:**

**(Name in Capital)**

**Seal      Membership No.....**

**Note:**

- 1) To be issued in the letter head of the Chartered Accountant with membership No.
- 2) Also attach photocopies of the audited P/L account of each year highlighting the turnover in support of that.

12-11-20  
Chief District Medical Officer  
Health

# FINANCIAL BID FOR SUPPLY OF HOSPITAL EQUIPMENTS, [EIF]

[As per List of Annexure-I]

Sl. No	Sl. No as per Annexure-01	Name of items.	Specification	Rate to be quoted in Quantity	Rate Quoted including GST & CMC			
					Base Price Rs.	CMC Price for the three years after 3 years onsite warranty to be included	GST (in %)	Total Price in Rs. (Base price + CMC price + GST)
1.								
2.								
3.								
4.								
5.								
6.								
7.								
8.								
9.								
10.								
11.								
12.								
13.								
14.								
15.								
16.								
17.								
18.								
19.								
20.								

- Note –The rate to be quoted must inclusive transportation (FOR Destination).

Date:

Signature

Place:

Name

Designation:

- ***N.B. The Bidder should quoted the rate of consumables, cartridge, papers, Digital X-ray Plate & Casstes used for CR System of this same manufacturer ( BIO-Chemic Machine & Others) for procurement of the same upto 6 years.***
- ***Tender will be finalized base on total price including of CMC cost.***
- ***Necessary agreement will be exercised by the bidder for provided CMC of the equipments after completion of onsite warranty.***

***Signature of the Bidder with seal and date.***

  
Chief District Medical & Public  
Health Officer, Keonjhar  
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