

OFFICE OF THE DIRECTOR ACHARYA HARIHAR REGIONAL CANCER CENTRE,
CUTTACK.

TENDER PAPER FOR TENDER NOTICE NO.886/dt.26.02.2014
S-44/2014

Director, A.H. Regional Cancer Centre, Cuttack invites sealed tenders in two bid system (Technical Bid, Price Bid) from the manufacturers/authorized dealers/DGSD Rate Contract holder/EPM Rate Contract holders, having after sale service centres in Odisha for the purchase of the I. C. U. Equipments with accessories, as per specifications mentioned against each equipment in Annexure – IV. The tenders should reach the office of the undersigned on or before **21.03.14** up to 3PM. The tenders (Technical Bid) shall be opened on **21.03.14** at 4PM. The tenderers or their authorized representative (one person only) may remain present at the time of opening of the tender. The bidder should quote unit price including taxes, terms and conditions and filled up the formats of Annexure-I,II,III accordingly with page Nos., signed in all pages with seal along with Earnest money deposit of Rs.25,000/- (Rupees Twenty five thousand only) by way of DD in favour of the Director, Acharya Harihar Regional Cancer Centre, Cuttack and submit in double sealed cover duly super-scribed with tenders for I.C.U. Equipments with tender notice No. & Date. Complete tender as per formats given, should be submitted with all the required documents, failing which the tender shall not be considered. Tenders shall not be received beyond the date and time fixed. The undersigned reserves the right to cancel any or all the tenders without assigning any reason thereof.

The detail scheduled of tender is as under.

- 1) The date and time of pre-bid meeting :- 10.03.14 11AM in the Office Chamber of the Director, AHRCC, Cuttack.
- 2) The last date of submission of tender :- 21.03.14 up to 3Pm.
- 3) Opening of technical bid :- 21.03.14 at 4PM in the office chamber of the Director, AHRCC, Cuttack.
- 4) Method of submission of tender :- By registered post/speed post/Courier.

GENERAL TERMS AND CONDITIONS

1. 50% value of the equipment/instrument shall be paid after installation and successful demonstration in this institute. Balance 50% shall be paid after 3 months from the date of satisfactory demonstration and working of the equipment.
2. The accepted tenderer shall have to deposit performance security @5% of the Invoice value of the equipment by way of DD/Bank Guaranty form a Nationalised Bank in favour of Director, Acharya Harihar Regional Cancer Centre, Cuttack for a period of 10 years/life of equipment before submission of bills/invoice. On maturity the amount shall be released to the supplier on successful fulfilment of all terms and conditions of the purchase order. If the firm fails to pay any penalty charges, the same shall be realized from the performance security deposit.

3. The supplier shall take full responsibility and bear all the expenditures of transportation, loading, unloading, insurance of the material till installation up to successful demonstration of the equipment at AHRCC, Cuttack.
4. The supplier has to maintain the instrument and equipment including accessories under warranty for a period of three years from the date of satisfactory demonstration and commissioning of the equipment.
5. The supplier shall bear all the cost of accessories and consumables if required for completion of installation and demonstration of the equipment. Only 220V power supply shall be provided by the centre. UPS/CVT/Stabilizer or any electrical protection device required for the functioning of the equipment shall be provided by the supplier without any extra cost. In case of any specific electrical power supply required to run the equipment, that must be mentioned in the tender.
6. The supplier shall bear the cost of inspection and training of the personnel of the institute where-ever applicable/necessary to handle the equipment.
7. It is the responsibility of the supplier to keep their consignment/machine in safe custody in the campus of AHRCC from the time of arrival till the time of successful demonstration of the same at their own risk and cost. The institute shall provide the space to keep the consignment inside the campus.
8. There will be an (Tripartite/Bipartite) agreement among the manufacturer, supplier and purchaser with the successful tenderer regarding supply of equipment accessories, spare parts, consumables, payment terms, warranty period, after sales service during warranty period and after warranty period during AMC/CMC up to the life of equipment, penalty clause, scope of service, payment terms of AMC/CMC etc. before placing the purchase order where necessary.
9. The authority reserves the right to reject any or all the tenders without assigning any reason thereof. The authority also reserves the right to alter the terms and conditions of supply, payment, warranty etc. without assigning any reason thereof.
10. No tender will be accepted beyond the date and time fixed.
11. The tenderer should quote the price of AMC/CMC per annum separately in price bid with scope of services, and other terms and conditions etc. if any up to the life of the equipment after warranty period.
12. The payment towards AMC/CMC shall be made in two phase. 50% shall be paid after 6 month from the date of contract and balance 50% shall be paid after completion of AMC/CMC period.
13. In case where turnkey job is required, the bidder has to quote the details of the turnkey work with specification list of materials, quantity, completion period of work, guarantee period of the supplied materials after sale service of the materials and payment term.
14. The bidder may inspect the site of installation of the equipment where turnkey job is required.

15. The payment towards turnkey job if any shall be made after satisfactory completion of the work and demonstration of the equipment.
16. The penalty charges shall be applicable as under:
 - a) If one fails to deliver the equipment in time, the EMD shall be forfeited with cancellation of purchase order.
 - b) If one fails to complete the installation of the equipment in stipulated time after arrival of the material as per order/negotiation, the penalty per day shall be charged as will be decided by the undersigned at that time which will be deposited by the supplier within the stipulated time, failing which the penalty amount shall be deducted from the EMD/ any payment due to the supplier.
 - c) During warranty period as well as AMC/CMC period the uptime will be 95% of 365 days (24 hours). If downtime exceeds 5%, penalty in the form of extended warranty, double the number of days for which the equipment goes out of service will be applied. The equipment should not remain in nonworking condition for more than 3 working days.
 - d) The manufacturers or their agents are required to submit a certificate that they have satisfactory service arrangements and fully trained staff available to support the uptime guarantee.
 - e) The penalty charges shall be deducted from EMD/Security money/any balance payment due to the concerned supplier if they fail to fulfil the terms and conditions of the tender/ purchase order.
17. The cost of tender paper Rs.2000/- (Non refundable) should be submitted along with the technical bid in favour the Director, AHRCC, Cuttack.
18. All the tender documents should be typed on the letter head of the bidder and duly signed with page No. in all pages. The tender paper of AHRCC should not be enclosed along with the bid.
19. The validity of tender bid must be minimum 90 days from the date of tender opening.
20. Dispute if any with regard to the tender shall be settled in the court in the jurisdiction of Cuttack, Odisha.

The technical bid must be accompanied with the following documents.

1. Technical specification of each quoted equipment supported by manufacturers printed Catalogues/Instruction Manuals/ Literature of the equipment/instruments separately.
2. Technical specification of turnkey job if any with details of materials and quantity.
3. Earnest money deposit of Rs. 25,000/- by way of DD in favour of the Director, Acharya Harihar Regional Cancer Centre, Cuttack
4. Photocopy of DGSD rate contract/ EPM rate contract if any.
5. Under-taking to maintain the equipment for a period of three years under warranty and bear the penalty charges as per format enclosed (Annexure - I).
6. Under taking that the price as obtained on the date of issue of purchase order shall be the price at which the equipment in question shall be supplied by the firm. (as per format enclosed at Annexure – I).

7. The tender application performa as per Annexure – II enclosed should be filled in, typed in the letter head of the tenderer, signed by the bidder and to be submitted along with the tender for each equipment separately.
8. Copy of up-to-date VAT clearance certificate valid up to 31.03.14.
9. Copy of up-to-date letter of authority from the principal/manufacturer in case of authorized dealer.
10. Copy of up-to-date letter from the concerned authority as a manufacturer of the quoted item in case of manufacturer.
11. Undertaking by the manufacturer/principals to maintain the equipment and provide required spare parts, consumables if any as and when required to maintain the equipment up to the life time.
12. List of maximum number of users of the quoted equipment with full address and present telephone number.
13. Performance certificate at least from three users with full address and present telephone number.
14. Certificate from the manufacturers or their agents that they have satisfactory service arrangements and fully trained staff available to support the uptime guarantee during warranty period and after warranty period up the life of the equipment.
15. Cost of tender paper Rs. 2000/- by way of DD in favour of Director, A. H. Regional Cancer Centre, Cuttack.

Annexure-I

UNDERTAKING

(Should be typed in the letter head of the Bidder)

I/We on behalf of _____
hereby undertake that we shall bear all penalty charges as and when will be charged by AHRCC, Cuttack in case we fail to complete the following works as per the condition of purchase order.

- a) Delivery of the equipment as per specification and quantity.
- b) Complete the installation as per purchase order.
- c) Commissioning the equipment for treatment.
- d) Maintain the system during warranty period for a period of 3 years.
- e) Maintain the system after warranty through AMC/CMC up to the life of the equipment that is _____ years as per order/contract.
- f) Completion of turnkey job if any as per specification and time.

We on behalf of the Principal further undertake that we shall supply spare parts, consumables on payment basis/free of cost as and when required on receipt of purchase orders/opening of LC, up to the life of the equipment.

We hereby undertake that the rate as obtained on the date of issue of purchase order shall be the rate at which the equipment in question shall be supplied by us.

Signature of the Bidder

FORMAT FOR TENDER APPLICATION

(Should be typed in the letter head of the Bidder and enclosed with technical bid for each equipment separately)

Tender No. _____/Date _____ Validity of tender up to _____.

1. Name of the equipment.
2. Make
3. Model
4. Catalogue of the quoted equipment at page No. :-
5. Life of the equipment.
6. Name and address of the Principal firm.
7. Name and address of the authorized Indian dealer/firm.
8. Name and address of after sales service station in Odisha.
9. Telephone/FAX/E-mail No.
10. Delivery period.
11. Mode of delivery.
12. Time required for installation and demonstration.
13. Guaranty period.
14. EMD DD No., Date and Amount.
15. Up-to-date VAT clearance certificate at page No. :-
16. Up-to-date letter of authority from the Principal at page No. :-
17. Copy of up to date DGSD/EPM rate contract if any at page No. :-
18. Undertaking as per format enclosed (Annexure – I) at page No. :-
19. Certificate from the manufacturers or their agents regarding trained staff available to support the uptime guarantee during warranty period and after warranty period up the life of the equipment.
20. Name and address of users of the quoted Equipment with telephone No at page No. :-
21. Performance certificate from 3 users with address and Telephone No. at page No. :-
22. Payment terms of the equipment at page No. :-
23. Payment term of AMC/CMC at page No. :-
24. Payment term of turnkey job if any at page No. :-
25. DD No., Date & amount for downloading the tender paper.
26. Optional accessories if any required, mentioned at page No. :-
27. Consumables if any required, mentioned at page No. :-
28. Spare parts if any required, mentioned at page No. :-
29. Scope of services during AMC period at page No. :-
30. Scope of services during CMC period at page No. :-

Signature of the Bidder

Format of The price bid

- 1) Name of the equipment
- 2) Make
- 3) Model
- 4) Price of the equipment as per format below (A)
- 5) Taxes as per format below
- 6) Installation and Demonstration charges if any.
- 7) Unit price of the optional accessories.
- 8) Unit price of the required consumable.
- 9) Unit price of recommended spare parts.
- 10) Price of AMC per year after warranty period as per format below (B).
- 11) Price of CMC per year after warranty period as per format below (B).
- 12) Service charges of the engineer per day.
- 13) Price of turnkey job if any with materials and quantity.

A :

Sl. No.	Brief Description of the Item with make & model	Unit Price	Taxes	Total Cost

B :

Sl. No.	AMC Cost after warranty period	CMC Cost after warranty period	Scope of Service during AMC period	Scope of Service during CMC period	Taxes if any
4 th year					
5 th year					
6 th year					
7 th year					

Sl. No.	Description	Specification
1	Syringe pump	<ol style="list-style-type: none"> 1. A handle for easy and convenient carrying. 2. The panel is below the Syringe. <p>Unique features :</p> <ol style="list-style-type: none"> a. Compatible with other makes and brands of Syringes . b. Disposable Syringes in nominal sizes of 10 ml to 60 ml can be used. c. Maximum flow rate up to 1ml to 1,200 ml/h. d. Check by indicator lights that the setting is right. e. 3 hour battery backup. f. Comprehensive warranty period of 3 years and after sale service for 10 years. g. Fully microprocessor controlled.
2	LED view box (LED Illuminators double film)	<ul style="list-style-type: none"> • Wall hanging model • Frame Dimensions (LxHxT)mm-850x510x45 • Viewing Area (WXH)mm- 720x430 • Power consumption-50W • Light Source- LED • Power Supply Unit-AC220-240V50 Hz • Intensity (Lux)- <10000 • Net Weight (kgs)-5.5 • It should be CE, and ISO Certified
3	Overhead stand light (LED light with stand)	<p>Temperature rise by ⁰</p> <p>LED Average lif above 50000 hours</p> <p>Power consumption 7W</p> <p>Kind of extension adjustable arm</p> <p>Brightness control by dimmer</p>
4	Transport Ventilator MRI compatible	<ul style="list-style-type: none"> • Should not occupy much space and it should be portable, should operate on built in piston or Turbine, should not use external compressor. • Ventilator should be useful for adult, pediatric & infant patients with in built color touch screen. • Should have VOLUME CONTROL & PRESSURE CONTROL BREATHS with A/CMV, SIMV, SIMV with PS, CPAP, CPAP with PS, with in-built PEEP modes of ventilation. • A/CMV, SIMV should work in both Volume Control as well as Pressure Control Breaths. • Should have back-up ventilation in all mode of ventilation with the facility to link the backup ventilation to Apnea alarm or Low Minute Ventilation Alarm or to both. • Should have both Pressure and Flow Trigger.
		<ul style="list-style-type: none"> • The unit should be able to provide the following parameters:- <ol style="list-style-type: none"> 1. Tidal volume : 50ml to 2200ml or more 2. Respiratory rate : Up to 99 bpm or more 3. PEEP /CPAP : 0 to 30 Cm H2O 4. Pressure support : Up to 60 cm H2O or more 5. Pressure Control : Up to 60 cm H2O or more 6. I: E ratio : 1:99 to 3:1 7. FiO2: 21 % TO 100% with FiO2 monitoring.

		<ul style="list-style-type: none"> • It should have the following alarms with audio, visual and with message display:- P max, P Min, High & Low Base line pressure, Hi & Low Min. Volume, Apnea, Back up ventilation alert, Device alert, Power switch over alert, Low battery, low & high FiO2. • Should have monitored data of inhaled as well as exhaled parameters:- Inspi. TV, Inspi. Min. Vol, Exh. TV, Exh. Min. Vol., Total RR, Pmax, Pmean, PEEP and FiO2 • Inspi. Time setting : 0.1 sec to 3.0 sec • Patient disconnection, power failure alarms • Manual Inflation upto 3 sec. max. • Should have 100 L/min or more peak flow • Battery should be rechargeable, hot swappable and life at least 6-8 hrs of operation or more at normal adult ventilation settings. • Unit should weight less than 7 Kg. • Should also operate in Air ambulances & helicopter and should have Airworthy certificate. • Should have rise time settings. • Should have inspiratory time setting for pressure support breaths. • Should have facility to change the battery (hot swappable battery) • Should have user selectable monitored data. • Should have CE and US FDA approval.
5	Pneumatic Compressor device	<p>The compression system should have :</p> <ul style="list-style-type: none"> • Provide Sequential, Gradient and circumferential compression around the ankle, calf and then the thigh. • Gradient compression in decreasing range of pressure from ankle to Thigh. 45mm/Hg in ankle, 40mm/Hg in calf and 30 mm/Hg in thigh. and 130mm/ Hg in foot compression. • Compression cycle frequency is to be dependent on Individual venous return. • Venous Return of individual patients should be sensed by compression system itself using the technique of air plethysmography. (VRD Technology) • Provides Animated Alarm resolution where animated icons communicate the cause of alarm and remedies for alarms. • Provide improved durability with rating of IPX3 which certifies stable power supply, limited diquid ingress and fully protected battery etc. • Controller should provide reduced noise by having vibration dampeners and soft over moulding.
		<ul style="list-style-type: none"> • Controller material should be compatible most of hospital grade cleaning agents. • Controller should have bed hook which attaches easily and securely to most footboards. • Choice of three styles like Knee Length, Thigh Length & Foot cuff. • Battery backup with Heavy duty battery which supplies power for 8 hours for uninterrupted compression. • Should have trouble shooting index in the device itself. • System should accommodate single leg operation or both if needed. • Leg sleeves should have thin fibers of cool venting fabric to reduce itchiness. • FDA/ISO/CE Mark Certified Quality product.

6	Inline Nebulizer	<p>Delivers four times more medication through an endotracheal tube (in vitro) during mechanical ventilation than small volume nebulizers (SVNs). Does not affect ventilator parameters during operation or refill. Maximizes respirable does with 2.1 µm average MMAD, low residual volume and minimal rainout. Low residual volume in medication cup (average 0.3 mL of 3 mL does) minimizes drugs waste Multiple patient use Autoclavable at 132⁰ C - 135⁰ C (270⁰ F - 275⁰ F) Approved to IEC Noise level: Silent Operation Light weight nebulizer <50 gms and Control Module weight: <500 grams. Frequency, Nebulizer Unit: >100 kilohertz (kHz)</p>
7	Refrigerator	<p>260 Ltr.</p> <ul style="list-style-type: none"> • 5 Star Rating • Works without Stabilizer • Green Ion Door Cooling Technology • Vitamin Plus • Convertible Box • Freeze & Cook Box • Beauty & Care • Cell Fresh Crisper with Humidity Controller • High Gloss Finish
8	Ambu Bag ETO Sterilisable Adult	<ul style="list-style-type: none"> • It can be autoclaved. • Bag volume should be 1475ml. • It should have single Sutter valve. • PEEP valve should be connected directly. • It should have integrated handle for easy holding. • Patient connector – outside 22mm & inside 15mm. • It comes with one silicon facemask size 5 and one 2600ml reservoir. • It should be ETO Sterilisable. • It should be CE, and ISO Certified.
9	Blood and Fluid Warmer	<p>Set Point Temperature : 41⁰ C Flow Rates : KV 0 to 30,000ml./hr. Alarms (audible & visible) : Over temperature set point = 43⁰ C (Primary) : Over temperature set point - 46⁰ C (secondary) Power : 110 VAC/220-240 VAC</p>
10	Computer	<p>(PROCESSOR i5, HARD DISK-500 GB, 4GB RAM, 48X CD/DVD DRIVE, KYEBOARD, OPTICAL MOUSE, 19" TFT MONITOR), OS- WINDOWS 7 PROFESIONAL650VA MERCURY UPS, QUICK HEAL ANTIVIRUS 2-in-1 printer, scanner. LASER MULTI FUNCTION MF 4750 ALL IN ONE PRINTER (PRINT, SCAN) (ADJUSTABLE OPERATION PANEL, 128MP RAM, 250 SHEET MANUAL INPUT FIRST PRINT OUT-6SECS OR LESS.</p>
11	Cidex tray	<p>20" x 8.5" x 5" Approximately. 14 ltr. Capacity. Soaking tray with cover MDP material.</p>
12	Drum Sterilizer	<p>Size 12" x 15". ISI mark.</p>

13	Digital Thermometer	<ul style="list-style-type: none"> ● It should be Transparent. ● It should be Waterproof. ● No metal Tip – Anallergic. ● No Nickel In Direct Contact with The Skin. ● Mercury – Free. ● Unbreakable Beep alert. ● Memory ● Hard Tip. ● High Precision. ● Easily replaceable battery.
14	Air Purifier system	<p>The System will be equipped with several stages of purification eg. Prefilter (50 Micron), Secondary Filter (10 Micron), UV Chamber with Photo-catalytic converter some of these features may present in all the equipment and are optional, however can be provided on extra cost if required, 4 Nos UV Lamp, Blower with variable speed, VOC Sensor (Scanner and photo Ionization chemical detector) and Electronic Sensor with Infrared motion. The complete unit will be housed in a suitable MS powder coated IP 56 Cabinet.</p> <p>Step One: Purifies the Air of Macro Particles - A treated (5) micron pre-filter removes a particles from the air larger than (5) MICRONS, extending the life of the HEPA filter and protecting the gas absorbing media from dust coating and fouling.</p> <p>Step Two: Hospital Grade HEPA Filter Removes Allergens - A hospital grade HEPA filter removes allergens so small that they can only be seen with a microscope. Pollen, mold, fungal spores, dust mites, cockroach dust, tobacco smoke and bacteria are but a few examples.</p> <p>Step Three: Absorbs Toxic Chemicals and Gases - A specially formulated gas absorption media absorbs automobile exhaust fumes, organic hydrocarbons, formaldehyde from particle board used in home construction, paint solvents, chlorine, cleaning chemicals and other fumes until the Photo-Catalytic converter destroys the pollutants.</p> <p>Step Four: “Photo-Catalytic Oxidation” Destroys Toxic Chemicals and Eliminates Odors - Activated carbon, zeolite and potassium permanganate can rapidly absorb large quantities of toxic fumes however this media quickly becomes saturated and slowly releases pollutants back into the air stream. Photo-Catalytic Oxidation converts toxic compounds, even carbon monoxide and nitrous oxide, into benign constituents such as carbon dioxide and water without wearing out or losing its effectiveness.</p> <p>Step Five: Ultraviolet Light Kills Disease Causing Germs on Contact - Ultraviolet light 10,000 times the intensity of sunlight kills viruses and bacteria too small to be filtered out by a HEPA filter, Ultraviolet technology combined with Photo-Catalytic Oxidation is the most important feature in air purification since germs are easily spread from one person to another by central heating and air-conditioning system.</p> <p>Step Six: Negative Ions Improve Sleep and Keep Air Fresh (the ion generator is totally optional and can be turned off for those sensitive to negative ions and ozone) - Oxygen in the air reacts with ultraviolet light to produce large amounts of negative ions and activated oxygen..</p> <p>VOC should not exceed the stipulated Limits where the persons are present, as per OSHA standards.</p> <p>To maintain the requisite Level of VOC in the environment it is proposed to install VOC ambient Monitor, which will continuously display the VOC concentration of the hall. This is essential considering human safety aspects for the personals in the working area.</p>

		<p>The display / control panel gives the user total control over the air quality</p> <ul style="list-style-type: none"> • Has over 2 speed options including a low noise sleep setting • Displays a reading of the indoor air quality • Can be controlled by a remote control (optional) • Has a motion sensor that can turn the unit on and off if desired • Purifies with Activated Carbon, Photo-Catalytic Oxidation (PCO), UV Light, and a HEPA filter - ALL in the same system. <p>SYSTEM DESIGN</p> <table> <tr> <td>Control System</td> <td>Microprocessor Based</td> </tr> <tr> <td>Options Available</td> <td>Mobile /Wall Mounted</td> </tr> <tr> <td>Principle of Operation</td> <td>UV & Ozone Sterilization</td> </tr> <tr> <td>Max Room Volume</td> <td>100 Nm³</td> </tr> <tr> <td>Operation</td> <td>Timer / Continuous</td> </tr> <tr> <td>Modes Available</td> <td>Fumigation and Sterilization Mode</td> </tr> <tr> <td>Timer Operation</td> <td>Seven weeks, Eight Options</td> </tr> <tr> <td>Time Totalizer</td> <td>for Actual Operating Duration</td> </tr> </table> <p>CONTROLS</p> <table> <tr> <td>Mode Selection Switch</td> <td>Fumigation / Sterilization</td> </tr> <tr> <td>Fumigation Control</td> <td>Mild / Normal / Intense</td> </tr> <tr> <td>Start Fumigation</td> <td>By Push-Button/auto Timer Option</td> </tr> <tr> <td>Stop Fumigation</td> <td>Automatic by Timer / Manual</td> </tr> <tr> <td>Fumigation Duration</td> <td>Settable</td> </tr> </table> <p>OZONE DISINFECTION SYSTEM CONSTRUCTION</p> <table> <tr> <td>Air Flow</td> <td>450 m³/hr</td> </tr> <tr> <td>Inlet Air</td> <td>Normal Polluted Room Air</td> </tr> <tr> <td>Outlet Air</td> <td>Fully Sterilized Air</td> </tr> <tr> <td>Number of UV Lamps</td> <td>2-4 Optional</td> </tr> <tr> <td>Wavelength</td> <td>253.7 nm</td> </tr> <tr> <td>No Of Ozone Cells</td> <td>2-4 Optional</td> </tr> <tr> <td>Filters</td> <td>Pre-filter (50 Micron), Secondary Filter (10 Micron), HEPA Filter</td> </tr> <tr> <td>Photo-catalytic converter</td> <td></td> </tr> <tr> <td>Electro Static Precipitator</td> <td>0.01 Micron</td> </tr> </table> <p>UTILITIES</p> <table> <tr> <td>Electric Power</td> <td>160 Watts</td> </tr> <tr> <td>Voltage</td> <td>220 V ± 10%</td> </tr> <tr> <td>Frequency</td> <td>50 Hz ± 2%</td> </tr> <tr> <td>Supply</td> <td>220 volts</td> </tr> </table>	Control System	Microprocessor Based	Options Available	Mobile /Wall Mounted	Principle of Operation	UV & Ozone Sterilization	Max Room Volume	100 Nm ³	Operation	Timer / Continuous	Modes Available	Fumigation and Sterilization Mode	Timer Operation	Seven weeks, Eight Options	Time Totalizer	for Actual Operating Duration	Mode Selection Switch	Fumigation / Sterilization	Fumigation Control	Mild / Normal / Intense	Start Fumigation	By Push-Button/auto Timer Option	Stop Fumigation	Automatic by Timer / Manual	Fumigation Duration	Settable	Air Flow	450 m ³ /hr	Inlet Air	Normal Polluted Room Air	Outlet Air	Fully Sterilized Air	Number of UV Lamps	2-4 Optional	Wavelength	253.7 nm	No Of Ozone Cells	2-4 Optional	Filters	Pre-filter (50 Micron), Secondary Filter (10 Micron), HEPA Filter	Photo-catalytic converter		Electro Static Precipitator	0.01 Micron	Electric Power	160 Watts	Voltage	220 V ± 10%	Frequency	50 Hz ± 2%	Supply	220 volts
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16	High end air bed	<ol style="list-style-type: none"> 1. Alternating inflatable air matters/dynamic air flow mattress system with interlinked & individually replaceable cells. 2. Should be able to support up to at least 200Kgs patient weight. 3. Cover of the mattress should be water proof, vapor permeable. 4. Power supply 220 – 240 Volts, 50Hz, and appropriately fitted with compatible plug. 5. Facility for quick deflation with easy to use CPR button for emergencies. 6. Should have 1 in 4 alternating cycle for pressure relieving. 7. Complete system (mattress + cover) should be launder able. 8. Should have a structure which would support patient to ensure that there is no patient fall possibility. 9. Height of the mattress should be minimum 15cms when fully inflated. 10. It should be mattress replacement system. 11. The mattress pump should be able to support inflation of seating cushion from the same mattress pump. 12. Pump should have auto locking facility for its key pad. 13. The equipment should be supplied with minimum warranty period of 36 months after successful installation. 14. Small amount of air should be circulating through the mattress for maintaining the moisture in between patient’s body and mattress itself.
17	Gas pipeline system	
18	Air bed normal	<ul style="list-style-type: none"> • The bubble pad structure should provide variation and distribution of pressure areas beneath the patient, compared to row by row pads. • Therapy for Stage 1 pressure ulcers. • Maximum weight capacity of 100 Kg. • Patented air chamber with ultra-quiet operation. • Adjustable comfort range with easy operating control knob. • Adjustable hangers to suit any kind of hospital bed frames. • Medical grade PVC is treated with fire retardant. • It should be supplied along with Pump.
19	Shoe Sterilizer	<ol style="list-style-type: none"> 1. Shoe cover machine : <ul style="list-style-type: none"> • Portable, • Automatic • ISO certified. • Easy and convenient to use. • Strong metal finish.
20	Fumigation machine	