

KOLLAM DISTRICT COOPERATIVE HOSPITAL SOCIETY LTD Q 952

Palathara,

Kollam

Pin: 691020

QUOTATION

For

Supplying, Installation & Commissioning of

MEDICAL EQUIPMENT AND FURNITURE

Sl.No	Item	Qty/ Estimate	
Medical Equipment and Furniture			
1	Automatic Tissue Processor	1	Detailed specification for the items is being provided in our website www.nshospital.org under tab “Tenders and Applications”
2	Manual Microtome	1	
3	Binocular Microscope	1	
4	Grossing Station	1	
5	Bone Cutter	1	
6	Tissue Flootation Bath	1	
7	Hot Air Oven	1	
8	Bicarbonate Mixer	1	
9	Dialyser Reprocessor	1	
10	Multipara Monitor-Modular	1	
11	Crash Cart-Broselow	1	
12	Crash Cart	1	
13	Video Laryngoscope- Handheld with reusable/disposable blades	1	
14	Video Bronchoscope- Flexible with disposable scopes	1	
15	Patient Bed-2 function manual	50	

Terms and Conditions

Please read carefully all points. If any quotation fail to satisfy any of these terms and conditions it might get disqualified without notice.

1. Only manufacturing companies or their authorized dealers can participate in the purchase. Dealers must submit authorization form from the company saying that they are the only authorized sales dealers in Kollam area for said equipments.
2. Details of service dealers also to be incorporated in the quotation.

3. Final rate should be given inclusive of tax. Unit rate and tax should be shown for every item in the quotation. Grand total will be the sum of subtotals of all individual items.
4. All bidders have to submit Compliance sheet for each and every Technical Specifications for particular equipment. In case any deviations are there, remarks to be made on the right side of each point without fail.
5. All bidders must quote only one model in each category which matches with technical specifications asked. If any bidder quotes more than 1 model which meets technical specification then only the model with least value will be considered.
6. Total no of installations with installation list for all equipments quoted should be attached with the technical bid. Installations of only the quoted model should be mentioned and same should be in working condition at the time of submission of Quotation. Any other models except quoted one shouldn't be there in the Installation Base. Each institution should be shown with Name, Designation & Contact No of the References. Feedback of the machine will be collected randomly from installation sites.
7. All optional items asked, should be quoted separately. There is a possibility of adding these items into package later and hence a company who quotes all optional items has upper hand over others who don't.
8. All specifications has allowable deviation limit of $\pm 6\%$
9. Terms of payment

No payment shall be made in advance. All payments shall be made by cheque / e-payment only. 70% of total value will be given at the time of delivery. 20% will be paid after installation and 10% of total value will be considered as performance security and will be released only after 1 month of installation/completion of work & successful first usage.
10. Standard Warranty 3 years. Extra years if given will be considered for L1 calculation.
11. AMC & CMC Rate after expiry of Warranty shall be mentioned in

Price Bid as Percentage of Total purchase value with yearly escalation if applicable.

A) Equipments for Histopathology

1) BINOCULAR MICROSCOPE

Manufacturer.....Model.....

Sl No	Technical Specification
1.	LED Illumination with continuous intensity adjustment, life more than 20000 Hrs
2.	5 fold nosepiece, Objectives should be inward inclined, Objectives –Achromatic 4x/0.10,10x/0.25,40x/0.65,100x/1.25 OIL
3.	30 degree binocular tube (IPD 52 - 75 mm).
4.	Eyepiece pair – 10x/ 20 FN with eyepiece locking screw, Foldable Eye guards
5.	Condenser : Abbe Condenser 0.9Dry/1.25 Oil
6.	Low position and self adjusting focusing mechanism.
7.	300 microns per fine focus rotation. Calibrated in 3 microns Increments .
8.	One hand slide loading, 26x76mm stage travel Antimicrobial treated with Proper Documents
9.	Integrated vertical handle for easy lifting and storage.
10.	Integrated cord wrapping facility.

11.	Machine have auto cut off facility after 2 hours if not in use (preferable)
12.	Upgradable for phase contrast & Fluorescence with minimum 3 filter
13.	Point counting and non point counting mechanical stages
14.	Stage without rack, Hard anodized stage surface Brake for securing rotation location
15.	Should have future up gradation option for installing a camera for viewing on screen.

2) MANUAL MICROTOME

Manufacturer.....Model.....

Sl No	Technical Specification
1.	Manual Microtome with specimen feed system
2.	Vertical Cross roller bearings mechanism for maintenance free operation
3.	Section thickness feed to the specimen from 1-60 microns with increments of 0.5 microns from 0 to 2 microns 1 microns from 2 to 10 microns 2 microns from 10-20 microns 5 microns from 20-60 microns
4.	Specimen feed of 24 mm and vertical stroke length of 59 mm
5.	Specimen retraction of 20 microns in the return stroke
6.	Patented gravitational force compensation system of handwheel enables very smooth and easy turn of handwheel to obtain a uniform stroke for excellent, perfectly stretched sections.

7.	The specimen retraction mechanism can be switched off when not required
8.	Mechanical trimming thickness selection of 10 and 50 microns
9.	Precise specimen orientation of 8 degree in x, y, z with anti tilt feature
10.	Knife holder base with lateral displacement Disposable Blade Holder
11.	Hand wheel lockable at any position (preferable)
12.	Lateral displacement to the knife base enables to use the entire length of knife / blade without removing or adjusting knife / blade
13.	Handwheel can be locked at any position by a quick locking system for ultimate user safety
14.	Additional 12 O' Clock locking by simply pulling the handle (preferable)
15.	Slot cover to protect the interior of the instrument from sectioning debris
16.	Coarse feed wheel turn direction: User selectable (preferable)
17.	Entering home position with horizontal cylinder Operation.

3) AUTOMATIC TISSUE PROCESSOR

Manufacturer.....Model.....

Sl No	Technical Specification
1.	Microprocessor controlled Tissue Processor with freely selectable programs
2.	User programmable parameters like infiltration time, delay time, agitation on-off and single basket operation.

3.	Programmable infiltration time.
4.	Delayed start up function (upto 9 days preferable)
5.	Drain time of 60 second in each station to reduce carry over contamination.
6.	Reagent containers of at least 1.8 litres or more with seals to minimize evaporation and exposure the hazardous fumes (Glass is preferable)
7.	Agitation in 3 second intervals with on/off function for through and even mixing of reagents (preferable)
8.	Maximum tissue processing capacity of 100 tissues with future ugradation option
9.	Maximum safety concept with automatic immersion of the tissue basket into the beaker in case of power failure.
10.	Audible alarms, error message and warning codes for maximum safety.
11.	Wax bath over temperature (at 65°C) and under temperature cut-off facility for the safety of tissues (Preferable)
12.	Locking facility to avoid inadvertent operation.
13.	Facility of manual lifts the carousal and removable tissues in case of long power failures
14.	Should have safety certificate from a competent authority CE issued by a notified body registered (European commission is preferable)

4) GROSSING STATION

Manufacturer.....Model.....

Sl No	Technical Specification
1.	<p>The workstation is made of top-to-bottom stainless steel construction will withstand the harshest laboratory disinfectants.</p> <p>Type : Self standing</p> <p>Cupboard : Provided in the bottom table</p> <p>Elevating working height : 2” from the floor level</p> <p>Air balancing : Negative</p> <p>Noise Level : >65 dB “A” Scale</p>

	<p>Suction Velocity : 100FPM Illumination : 4 no.s of round LED tubes Power socket : 2 no.s of universal 6/16A additional power sockets</p>
2.	Pull-out writing ledge/pencil drawer at below the worktable
3.	Towel holder inside the workstation
4.	Shelves inside the work area
5.	Exhaust air grill on the working table
6.	Hand water spray rinse on the table
7.	Magnetic tool bar at rear panel
8.	Grossing perforated tray on the sink
9.	Small size PP platform for grossing work process
10.	Floor leveling screws at the bottom of the stand
11.	Easily changeable carbon filter in the exhaust system to trap contaminants or pollutants
12.	Waste disposal system : Imported Waste disposal system of 1/2 hp capacity for high performance
13.	<p>Material of Construction for the Grossing Workstation:</p> <p>Main Hood & Bottom Support: The complete cabinet is made out of thick & heavy gauge SS 304 Grade Stainless Steel with matt finish.</p> <p>Working Surface: The work surface is made with thick & heavy gauge SS 304 Grade Stainless Steel with Matt finish. Work surfaces are recessed and sloped to facilitate drainage into the extra-large integral sink.</p> <p>Bottom Sink: Bottom of the worktable will be provided with knee space for the foot rest. The cupboard is provided on one side for storage. The worktable</p>

	will be provided with a SS 304 Sink with single way, high quality swan neck metallic water tap & UPVC drain hose for outlet.
14.	Exhaust Blower: The capacity of the blower for this application is to be provided with 1000 CFM with 60mm WG static pressure.

5) HOT AIR OVEN

Manufacturer.....Model.....

Sl No	Technical Specification
1	Should be operated on 230V, 50Hz single phase AC supply and having temperature ranging between 50-200°C
2	Should be made of double walled chamber -Inner made of stainless steel SS 304 grade and powder coated outer surface with proper isolation
3	Should provide with three heating elements on three sides of the equipment for uniform temperature on all shelves.
4	Should provide with a variable microprocessor based digital temperature controller with digital display and thermometer should be provided separate.
5	Should have a minimum chamber size of (L*B*H) 300*300*300 with 2 stainless steel trays with holes.
6	Should provide with air ventilations

6) TISSUE FLOATATION BATH

Manufacturer.....Model.....

Sl No	Technical Specification
1.	Designed primarily for use within the field of clinical histopathology.
2.	Digital display/membrane keyboard, temperature range from ambient to +75°C.

3.	High temperature consistency working
4.	temperatures above +44°C
5.	Set temperature displayed in addition to actual temperature.
6.	Jet-black aluminium surface with special scratch-proof plastic coating ensures highest thermal conductivity.
7.	SS inner chamber circular or Rectangular with capacity of 1 L

7) BONE CUTTER

Manufacturer.....Model.....

Sl No	Technical Specification
1	Electric Bone-cutter for Histopathology
2	Table Mounted/Stand Alone

B) Other Equipments

8) BICARBONATE MIXER

Manufacturer.....Model.....

Sl No	Technical Specification
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1.	Should have conical bottom type vessel of capacity atleast 100litres, made of SS or LLDPE (linear low-density polyethylene) material. Supporting stand should be made of Stainless steel – SS 304 grade.
2.	Should have stainless steel rod grit, non wetted pedestal stirrer - Not applicable in case of pressure flow mixing technology.
3.	Should have Marine style 3 blade propeller- Not applicable in case of pressure flow mixing technology.
4.	Blade should be stainless steel – SS 316 L grade or Pressure flow mixing technology.
5.	Should have at least 0.5 Hp, single phase electric motor, 230V AC. 50 Hz.
6.	Motor Assembly shall be quickly removable for easy cleaning and autoclaving
7.	RO water inlet should be Cpvc with ball valve @ 105 ltrs.
8.	RO water outlet should be Cpvc with ball valve @ 100 ltrs.
9.	Solute should be Cpvc with ball valve @ 4 ltrs.
10.	Drain should be Cpvc with ball valve @ 0 ltrs.
11.	Should supply with necessary spares and accessories.
12.	Should operate on mains 220-240Vac, 50 Hz single phase.

9) DIALYZER REPROCESSOR

Manufacturer.....Model.....

Sl No	Technical Specification
1.	Automated dialyzer reprocessing system.
2.	High standardization in cleaning, volume measuring, leak testing and chemical disinfecting.
3.	No external dilution / minimize chemical contact.

4.	Separated mixing and volume tanks to minimize cross contamination.
5.	Automatically shutdown after system disinfecting.
6.	Simultaneously and independently reprocess two or more dialyzers.
7.	Automatic cleaning, volume measuring, leak testing and chemical filling.
8.	Should be able to process all types and brands of dialyzers.
9.	Volume measuring range = 25-300 ml
10.	Volume measuring accuracy + 5%.
11.	Leak test method, low limit setting should be specified.

10) MULTIPARA MONITOR-MODULAR

Manufacturer.....Model.....

S I N o	Technical Specification
1.	Modular multipara monitor suitable to use in an ICU with ECG from 3 lead ECG, SPO2 (Masimo is desirable), NIBP, Respiration Rate, temperature, dual IBP & Mainstream ETCO2
2.	All parameters come in as 2 modules (1 st -Basic parameters, 2 nd –IBP & ETCO2). 2 nd module must be easily replaceable. Module of basic parameters is also user replaceable (desirable)
3.	Should be portable with carrying handle.
4.	Should have TFT display with at least 10 inches or higher with at least 6 waveforms and numeric display simultaneously.
5.	Should have battery backup of minimum 2 hours
6.	Should have knobs & keys/Touch screen for quick access to main functions.

	(Touchscreen desirable)
7.	Should have adult, pediatric and neonatal modes.
8.	Should provide prominent prioritized audio, visual alarms for high, low heart rate, SpO2, RR, low battery and lethal arrhythmia
9.	NIBP can be taken on manual/auto/stat modes.
10.	Should work on 200-240V AC/50Hz with inbuilt rechargeable battery.
11.	Should have safety certificate from a competent authority CE issued by a notified body registered in European Commission / FDA (US) / STQC CB certificate/ STQC S certificate or valid detailed electrical and functional safety test report from ERTL. Copy of the certificate / test report shall be produced along with the technical bid.
12.	Should have perfusion index display
13.	Monitor should have networking facility with bidirectional & bed to bed communication.
14.	<p>Monitor stand should be supplied along with the machine as per the following specification</p> <ol style="list-style-type: none"> 1. Monitor stand -extruded Aluminum, powder coated with rail for height adjustment. 2. Monitor should be able to be fixed/removed easily by latch/pressing/rotating a knob (Not using screws) 3. Load bearing capacity 20 kgs approximately. 4. Should supply, install with necessary anchor fasteners at the site.
15.	Equipment performance should not be affected by electromagnetic interferences radiated or conducted through power lines from another device
16.	<p>Should be supplied with standard accessories for all parameters asked (ECG, SPO2, NIBP, Temp and dual IBP)</p> <p>IBP cables 2 Nos. to be supplied which are suitable for user choice of transducers.</p>
17.	<p>Rate should be quoted separately for</p> <ol style="list-style-type: none"> 1. Module with Dual IBP 2. Module with Sidestream/Mainstream EtCO2 3. Module with both IBP & EtCO2 4. Monitor stand with above mentioned specifications

	5. Adult 3 lead ECG Full Cable/Cable & Leadset if applicable 6. Adult, Pediatric & Neonatal SpO2 Probe 7. NIBP Cuff Adult & Pediatric
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11) CRASH CART-BROSELOW

Manufacturer.....Model.....

S I N O	Technical Specification
1	Broselow Pediatric Crash Cart with high quality breakable Castors
2	Polymer moulded Panels
2	5 Drawers of different sizes
2	Should have Defibrillator Tray and sliding side tray
3	All standard accessories

12) CRASH CART

Manufacturer.....Model.....

S I N O	Technical Specification
1	Crash Cart with SS tubular frame and SS shelves and high quality breakable Castors
2	2 Rows with multicolor removable bins
3	6 Drawers with containers of different sizes
4	All standard accessories

13) VIDEO LARYNGOSCOPE-HANDHELD WITH REUSABLE/DISPOSABLE BLADES

Manufacturer.....Model.....

SI No	Technical Specification
1.	Should be a portable video laryngoscope for intubations with minimal manipulation of head & neck dedicated features for teaching, training & learning in the specialty
2.	Minimum 1 megapixel camera should be available
3.	Should have a free fog optical polymer material/ poly carbonate material blades
4.	Should have a suitable view angle to visualize glottis without much head & neck manipulation, ergonomically
5.	. The system should have portable colour video display LCD of at least 2.3 ” or above size for the real time clear view
6.	Weight of handle should be light and not be more than 250 g
7.	Should have passed the drop test for one meters
8.	Light sources should be high-intensity LED
9.	Should have facility to run independently on a battery and back up should have minimum four hours. The rate for the battery shall be offered separately.
10.	The system should be supplied with a set of different sizes of blade size 1,2,3,4 and one additional blade for difficult intubation
11.	Should be immersible for complete disinfection (without battery)
12.	Device should have durable medical grade SS or thermoplastics
13.	Should have safety certificate from a competent authority CE issued by a notified body registered in European commission / FDA (US) STQC CB Certificate/ STQC S Certificate or valid detailed electrical and functional safety test report from ERTL.. Copy of the certificate / test report shall be produced along with the technical bid.
14.	To be quoted separately 1) Rate of Battery 2) Rates for Blades of 5 sizes

14) **VIDEO BRONCHOSCOPE-FLEXIBLE WITH DISPOSABLE SCOPES**

Manufacturer.....Model.....

SI No	Technical Specification
1.	Equipment should be disposable flexible, light weight handy and portable bronchoscope with inbuilt light source for highly infected patients
2.	Scope is of 60cm length and should be available in various diameters and channel sizes.
3.	Should have suction port, oxygen port and drug installation port
4.	Tip should be easily manoeuvrable, tip deflection range 180/180 degree
5.	Scope should come in pre sterile packing
6.	Should provide portable TFT LCD monitor of size 8” (Preferable) with touch screen and clamp for fixing with IV stand.
7.	Monitor should have minimum 8 GB storage capacity, minimum 2 hour backup, recording facility, USB port and provision for video output
8.	Monitor should run on both electricity and battery
9.	Should have safety certificate from a competent authority CE issued by a notified body registered in the European commission / FDA (US)/ STQC CB Certificate/ STQC S Certificate or valid detailed electrical and functional safety test report from ERTL. Copy of the certificate/ test report shall be produced along with the technical bid. (for monitor)
10.	To be quoted separately 1) Scopes with all sizes one by one

15) **2 FUNCTION BEDS-MANUAL**

Manufacturer.....Model.....

Sl No	Technical Specification
1	2 Functional Manual Bed with mattress
2	Weigh Bearing of 120 Kg or better
3	Height 60cm (including mattress)
4	Mild Steel make and power coated body
5	Lockable castor wheels of heavy duty
6	Side rails of mild steel make and power coated/polymer moulded to avoid patient fall through rails.
7	Polymer Moulded Head end and foot end
8	Backrest angle 60 degree or better
9	Knee rest angle 50 degree or better
10	Should be supplied with mattress arrestor, rubber buffer, urine bag holder & IV pole with 2 hook