

**GUJARAT UNIVERSITY OF TRANSPLANTATION SCIENCES**  
**(Established under Gujarat Act No. 9 of 2015)**  
**IKDRC-ITS Premises, Civil Hospital Campus, Asarwa, Ahmedabad-380016**  
**Ph. 079- 22682241**

**E-TENDER NOTICE**

Tender notice No. GUTS/Equipment/01/2017

Tenders are invited online for supply, installation and commissioning of Medical Equipments / Instruments from the reputed manufacturers, direct importers/authorized representative appointed by parent manufacturer or its subsidiary company for the research projects of the Gujarat University of Transplantation Sciences (GUTS).

**List of Equipments / Instruments**

Sr. No.	Name of Department	Item Name	Qty.	EMD (Rs.)
1.	Transplantation surgery Department	Liver perfusion machine	1	1,50,000
2.		Kidney perfusion machine	1	1,20,000
3.		Automated biochemical analyzers	1	90,000
4.	Physiotherapy Department	Movement Therapy System for upper and lower limbs	3	99,225
5.		VO2 max analyzer with spiroergometry	1	94,500
6.		Bio Electric Impedance	1	3,000
7.		Hydraulic Hand Dynamometer	1	2,100
8.		Spirometer	1	4,500
9.	Critical Care Department	Nitric oxide delivery system	1	45,000
10.		High Frequency Oscillatory ventilator	1	90,000
11.	Anesthesia Department	Manikins for Anesthesia Simulation lab		
		(A) Airway Management Trainer	1	5,070
		(B) Difficult Airway Training	1	13,500
		(C) Adult Arterial IV Arm Trainer	1	4,500
		(D) Epidural And Lumbar Puncture Training Manikin	1	11,261
		(E) Central line manikin with neck pad	1	6,000
		(F) Nerve Blocks	1	14,400
12.	Reproductive Medicine and Surgery Department	Next Generation Sequencer	1	1,50,000
13.		Real Time PCR	1	15,000
14.		Automated DNA Sequencer	1	1,20,000
15.	Pathology Department	Fully Automated Immuno histochemistry Stainer	1	1,38,000
16.		TB - PCR	1	75,000

## Key Dates

Sr. No.	Description	Schedule
1.	Downloading Tender Document (On Line)	<a href="#">17/04/2017 to 09/05/2017 upto 17.00 hrs.</a>
2.	Due date and Time of Submission (On Line)	<a href="#">09/05/2017 upto 17.00 hrs.</a>
3.	Envelopes containing the “Technical Supporting Documents”, inclusive of the “Tender Fee”, “EMD Fee” to be submitted physically or by Regd. post	<a href="#">On or before 10/05/2017 upto 13.00 hrs. at office address</a>
5.	Date and Time of Technical bid Opening (On Line)	<a href="#">10/05/2017 at 15.00 hrs.</a>

## List of Annexures:

Annexure – I	:	Terms & Conditions
Annexure – II	:	Technical Specifications
Annexure – III	:	Tender Submission Form
Annexure – IV	:	Manufacturer’s Authorization Form
Annexure V	:	Manufacturing Experience Certificate for last Three Years
Annexure – VI	:	Check List of Documents to be submitted along with Technical Bid
Annexure – VII	:	Commercial Bid for Indigenous Items
Annexure – VIII	:	Commercial Bid for Imported Items
Annexure - IX	:	Commercial Bid for Annual Comprehensive Maintenance Contract
Annexure - X	:	List and Rates of Consumables

## **Annexure – I**

### **Terms & Conditions:**

#### **1. Eligibility Criteria:**

- I. Tenderer must be an Indian Manufacturer or Authorized Distributor for imported item or Subsidiary of original foreign manufacturer.
- II. In case of imported items (equipment – materials), the authorized representative or dealer shall be allowed to quote the tender, but such authorized representative or dealer should be a regular supplier of products of that manufacturer for last three years preceding the date of Technical Bid. Such authorized representative or dealer should submit a letter by original manufacturer duly filled in prescribed format (Annexure-IV) with tender documents otherwise tender will be ignored.
- III. The Indian manufacture should have experience of manufacturing and selling of quoted product for three financial years preceding the date of opening of technical bid. For this purpose, they have to submit Chartered Accountant's certificate in original, showing year wise production and sales for quoted product for last three years. (Annexure-V)
- IV. In case a subsidiary company of a foreign manufacturer is participating in tender process, it will have to produce documents that they are 100% subsidiary company of their foreign manufacturer whose item / instrument is quoted.

#### **2. Preparation and Submission of Tender:**

The tenderer shall submit the tenders in one sealed cover, containing three separate sub sealed covers before last date of submission.

**Part-I:** Tender Document Fee and EMD

**Part-II:** Technical Bid for Tender for Supply of (Item Name)

**Part III:** Commercial Bid for Tender for Supply of (Item Name)

All sealed covers should be submitted at the below mentioned address before 10/05/2017 upto 13.00 hrs.

The Registrar,  
IKDRC-ITS Premises,  
Civil Hospital Campus,  
Asarwa,  
Ahmedabad - 380016  
Gujarat, India.

(a) No tender will be accepted after prescribed closing time for submission of

the tender. The delay will not be condoned for any reason whatsoever including postal/transit delay.

- (b) In no case, rates should be quoted anywhere except in Commercial Bid part. The tender will be rejected without any further processing or reference if the rates are quoted or written at any other place. If rates are quoted in Commercial Bid part for which the technical details are not given will also be rejected.
- (c) In the first instance only the "Technical Bid" with supporting documents will be opened. After scrutiny, the "Commercial Bid" will be opened only of those tenderers whose Technical Bid satisfy the technical requirements of the tender and are otherwise acceptable.
- (d) The purchase Committee of GUTS, Ahmedabad shall be the tender approving authority for the purpose of this tender.

### **3. Tender Document Fee:**

Each tender must be accompanied by tender document fee of Rs. 5000/- (non-refundable) by DD of any nationalized/scheduled bank drawn in favour of GUTS. Non-payment of the document fee will make the tenderer liable for disqualification.

### **4. Earnest Money Deposit:**

Each tender must be accompanied by EMD in the form of DD/irrevocable Bank Guarantee in favour of GUTS payable at Ahmedabad, of any Nationalized Bank / Scheduled Bank. The EMD of the successful bidder shall be returned after the contract is finalized. Bid(s) received without EMD will be rejected. No interest will be paid on EMD.

The E.M.D. shall liable to be forfeited in the following circumstances.

- (a) Tender is rejected due to failure to furnish the requisite documents in the proper format or giving any misleading statement or submission of false affidavit or fabricated documents.
- (b) Tenderer fails to sign the agreement for entering into contract in case the offer is accepted, due to any reason whatsoever.
- (c) Tenderer fails to supply the goods / items as per the orders placed within the delivery period so stipulated.

- 5. Rates:** The tenderer supplying indigenous goods or already imported goods shall quote only in Indian Rupees on F.O.R. basis inclusive of all levies and duties wherever applicable (Annexure VII). Only for imported goods if supplied

directly from abroad, prices shall be quoted in any freely convertible currencies e.g. USD, Euro, GBP, Yen etc. Rates should be quoted on F.O.B. as well as estimated CIP Ahmedabad basis for imported goods, Indian Agency commission/rebate payable to Indian Agent, if any, shall be shown separately and that will be payable in equivalent rupee directly to Indian Agent .The Indian Agency commission will be calculated as per the exchange rates established by the Reserve Bank of India, as on the date of ‘Commercial bid opening of the said tender’. The Tenderer must quote the taxes levied, if any, on the Indian Agency commission. The supplier shall be responsible to get the goods air –freighted/sea freighted & air insured/marine insured up to the University. Rates should be quoted on DOOR Delivery Basis at GUTS, Ahmedabad, inclusive of all the charges, with break-ups as per Format of Commercial Bid. (Annexure VIII)

**6. Conversion of tender currencies to Indian Rupees:**

In case tenderers quote their prices in different currencies, all such quoted prices of the responsive tenderers will be converted to a single currency viz., Indian Rupees for the purpose of equitable comparison and evaluation, as per the exchange rates established by the Reserve Bank of India, as on the date of ‘Commercial bid opening of the said tender’.

**7. Custom Duty and Custom Clearance Charges :**

The supplier will get the equipment/consignment cleared from the custom. The Custom Duty and clearance charges shall be paid by the supplier which will be reimbursed to them as actual on production of bill. Freight charges will be borne by the manufacturer/Indian representative. Also the insurance will be paid and arranged by the firm effective from port of shipment to GUTS, Ahmedabad. Custom Duty and Clearance & other Charges will be calculated @ of 15% of FOB Value or 12% of CIF/CIP value. However the payment shall be made on actual but not more than this rate.

## **8. Validity:**

The quoted rates must be valid for a period for 180 days from the date of acceptance of the tender. The overall offer for the tender and bidder(s) quoted price shall remain unchanged during the period of validity. If the bidder quoted the validity shorter than the required period, the same will be treated as unresponsive and it may be rejected. Validity of the quoted rates can be extended beyond 180 days with mutual agreement of both the parties.

In case the tenderer withdraws, modifies or changes his offer during the validity period, bid is liable to be rejected and the earnest money deposit shall be forfeited without assigning any reason thereof. The tenderer should also be ready to extend the validity, if required, without changing any terms, conditions etc. of their original tender.

- 9.** The tenderer must provide original documentary proof of the date and place of manufacturing of supplied equipments. The company should also give the certificate that the model quoted is the latest and not obsolete; and spares will be easily available for next 5 years after warranty. Imported items should be US-FDA or CE (Conformité Européenne) certified. The company must enclose the User list and Performance Report for the last 3 years from major hospitals where items are supplied.

- 10.** The tenderer must satisfy that they are in possession of the requisite permissions / licenses / permits required for the supply of the items for which the offer is made and they should be in force and valid on the last date of the submission of the tender / signing of the agreement as the case may be. In case, the certificates / licenses / permission are outdated or the validity period is over, the proof of applying for renewal should also be attached.

## **11. Warranty / Guarantee:**

- a. Guarantee / Warrantee Period:** For the equipment value upto Rs. 5 Lakh the Tenderers must quote for 2 years comprehensive warranty (Including all Spares, Consumables, Accessories and Labour) from the date of completion

of the satisfactory installation. The warranty charges shall not be quoted separately otherwise the offer shall be rejected. Also the bidders are requested to submit their quote (Rates) for subsequent 3 years Comprehensive Maintenance Contract (CMC) (Including All Spares, Consumables, Accessories and Labour). Failure to comply this condition will entail the rejection of the bids. The price comparison shall be taking into account basic price and post warranty CMC.

- b. Guarantee / Warrantee Period:** For the equipment value above Rs. 5 Lakh The Tenderers must quote for 5 years comprehensive warranty (Including all Spares, Consumables, Accessories and Labour) from the date of completion of the satisfactory installation. The warranty charges shall not be quoted separately otherwise the offer shall be rejected. Also the bidders are requested to submit their quote (Rates) for subsequent 5 years (i.e. years 6 to 10 inclusive) Comprehensive Maintenance Contract (CMC) (Including All Spares, Consumables, Accessories and Labour). Failure to comply this condition will entail the rejection of the bids. The price comparison shall be taking into account basic price and post warranty CMC. The CMC Rate for the third year or sixth year (as the case may be) should not be more than 5% of FOB and escalation in next year CMC should also not be more than 5%. The CMC price should be filled in Commercial Bid only. (Annexure IX)
- c.** Tenderers will have to provide four free services for maintenance during the warranty period at least once every three months. If tenderer fails to provide any of four free services, 0.25% of total purchase amount of the equipment for each such services that is not provided shall be forfeited from Security Deposit. Preventive maintenance would also include the calibration of equipments, so the supplier will have to calibrate all equipments during warranty and CMC period. Apart from this, the supplier will have to do necessary quality Assurance (Q.A.) test for equipments during his preventive maintenance visit and as and when required by the user.
- d.** Tenderers will have to provide a list of consumables/spares, & rates in case they are not covered under CMC. This rates will remain in force for the

entire period of contract till the end of CMC. It will not be considered for price evaluation but would be negotiable. Format for List and rates of consumables is attached at Annexure –X.

**12. Uptime guarantee:** During warranty period, bidder shall maintain and keep 95% uptime per year (347 days/annum). The principals or their authorized service providers are required to submit a certificate that they have satisfactory service arrangements and fully trained staff who will attend to complain within 48 hrs. to support the uptime guarantee failing which 0.05% of total amount of the equipment shall be recovered from Security Deposit for each extra day of delay as liquidated damages.

**13.** In case of malfunction/breakdown, if the supplier fails to fulfill the contractual obligations of warranty and repair / replace the defective part and make the equipment operational within 30 days of lodging the complaints, the entire security deposit will be forfeited unless company provides temporary back-up support within 72 hrs of registering the complaint till the time machine is repaired and returned.

**14. Downtime penalty Clause**

**a.** During the comprehensive warranty period, the guarantee uptime of 95% of 365 days will be ensured. In case the down time exceeds the 5% limit, penalty of extension of guaranty period by two days for each additional day of down time will be enforced. The supplier must undertake to supply all spares for optimal upkeep of the equipment as per clause 10(a)/10(b) after handling over the equipment to the University. If accessories / other attachment of the system are procured from the third party, then the bidder must produce cost of accessory / other attachment and the CMC from the third party separately along with the main offer and the third party will have to sign the CMC with the University if required.

**15. Delivery & Installation:** The tenderer shall submit the pre-requisite information like Civil works/Electrical details etc. within 15 days from the date of receipt of order or establishment of letter of credit as the case may be.

All the items ordered shall be delivered & installed within 60 days from the date of issue of purchase order. All the aspects of safe delivery, installation and commissioning shall be the exclusive responsibility of the supplier.

If the supplier fails to deliver, install and commission the goods on or before the stipulated date, then a penalty at the rate of 2% per week of the total order value shall be levied subject to maximum of 10% of the total order value.

**16. Security Deposit:**

The successful tenderer shall have to pay security deposit at the rate of 5% of total contract value if contract value is upto 5 lacs or at the rate of 10% of total contract value if amount exceeds 5 lacs by irrevocable Bank Guarantee (BG) or Fixed Deposit Receipt (FDR) issued by any Nationalised Bank/Scheduled bank in favour of GUTS at the time of entering into agreement for the performance of the contract. The validity of bank guarantee should be for a period of 60 days beyond warranty and CMC period combined. The security deposit will be refunded only after satisfactory execution of the contract and recovery of dues, if any, after expiry of the contract period. On security deposit no interest will be paid. Failure to pay security deposit shall invite disqualification of the tenderer for future quotations apart from forfeiture of E.M.D.

**17. . Liquidated Damages**

- (i) The date of delivery of the Items, stipulated in the acceptance of the tender should be deemed to be the essence of the contract and delivery must be completed not later than the dates specified therein. Extension will not be given except in exceptional circumstances. Should, however, deliveries be made after the expiry of contracted delivery period, without prior concurrence of the purchaser and be accepted by the consignee,

such delivery will not deprive the purchaser of this right to recover liquidated damages under clause (ii) below.

- (ii) Should the supplier fails to deliver the Items or any consignment thereof within the period prescribed for delivery, the purchaser shall be entitled to recover 1 % of the value of delayed supply for a period up to 4 (four) weeks and thereafter at the rate of 10 % of the value of the delayed supply for another 4 (four) weeks of delay. In the case of package supply where the delayed portion of supply materially hampers installation and commissioning of the systems, liquidated damages charges shall be levied as above on the total value of the concerned package of the purchase order. Quantum of liquidated damages assessed and levied by the purchaser shall be final and not challengeable by the supplier.

**18.** At the time of installation and commissioning of items, two sets of service manual, circuit diagram as well as operating manual must be provided in English language. The successful tenderer is required to impart training to operate equipment at the place of installation within seven days of its installation till satisfaction of the user department.

**19. Satisfactory Installation:** Satisfactory installation / commissioning and handling over of the equipment means the faultless functioning of the equipment for a minimum period of 30 days after satisfactory installation.

**20. Subletting of Work:** The firm shall not assign or sublet the work/job or any part of it to any other person or party without having first obtained permission in writing of Registrar, GUTS, Ahmedabad which will be at liberty to refuse if thinks fit. The tender is not transferable.

**21.** Tenderer must submit technical printed catalogue and technical data sheet to substantiate offer.

**22.** The quantity of item given in the tender is tentative, which may be increased or decreased as per the University requirement.

**23. Breach of Terms and Conditions:** In case of breach of any terms and conditions as mentioned above, the Registrar, GUTS, will have the right to cancel the work order/ job without assigning any reason thereof and nothing will be payable by GUTS, in that event the security deposit shall also stands forfeited.

**24. Payment Terms:**

In case of payment to be done in Indian currency,

- 90% payment of the total order value shall be released after the satisfactory installation/ commissioning of the ordered items against the submission of the test report.
- Balance 10% of the order value shall be released within 30 days of satisfactory installation and submission of the report by concerned department.

In case of imported Items/equipment, the payment schedule will be as follows:

- The mode of payment will be through irrevocable letter of credit. However, Indian Agency Commission or Technical Services charges would be paid in Indian rupee after satisfactory receipt & installation of goods at site. Indian Agency Commission must be declared in the price/bid. If Indian agency commission is not mentioned in the price bid, no claim for it shall be admissible afterwards.
- A - 75% amount shall be released by bank on confirmation of dispatch of goods by foreign supplier through submitting shipping documents against shipment
- B - 15% against satisfactory installation
- C - 10% within 30 days of satisfactory installation and submission of the report by concerned department.

Provided that where the installation and commissioning of the machine is delayed and the installation cannot be carried out due to the reasons not associated with the tenderer or put off beyond 60 days of the receipt of goods at the ultimate destination due to express written instructions of the consignee, the balance 25 % payment shall be released to the supplier on his furnishing the bank guarantee afore mentioned.

**25.** The price escalation clause will not be allowed under any circumstances except statutory taxes / duties imposed / withdrawn / Increased / decreased on quoted items by the State or Central Govt. during the period of contract subject to approval by Registrar, GUTS.

27. The GUTS reserves the right to accept in part or in full or reject any or more tender(s) without assigning any reasons or cancel the tendering process and reject all tender(s) at any time prior to award of contract, without incurring any liability, whatsoever to the affected bidder or bidder(s).
28. GUTS reserves the right to ask the tenderers for arranging demonstration of the item for which rates have been quoted before opening of Financial Bid.
29. Signed & stamped compliance sheet of the technical specification of the items (Annexure III) must be enclosed with the technical bid. Checklist of documents to be submitted alongwith technical bid (Annexure VI) must be enclosed with technical bid. Any misinformation regarding the specification of the equipment offered or failure to enclose documents would mean outright technical rejection.

### **30. Notification to successful bidder**

- (i) Before expiry of the tender validity period, the successful tenderer(s) will be notified in writing, by registered post / speed post / fax / email (to be confirmed by registered post / speed post / fax / email immediately afterwards) that its tender has been accepted, also briefly indicating therein the essential details like description, specification and quantity of the goods and services and corresponding prices accepted by issuing a Letter of Intent (LOI).
- (ii) The successful tenderer, upon receipt of the LOI shall furnish the required Security Deposit and submit an agreement within 15 days, failing which the EMD will be forfeited and the award will be cancelled.

### **31. Resolution of disputes:**

- (i) If dispute or difference of any kind shall arise between the GUTS and the successful tenderer in connection with or relating to the contract, both the parties shall make every effort to resolve the same amicably by mutual consultations.
- (ii) If the parties fail to resolve their dispute or difference by such mutual consultation within thirty days of its occurrence, then, either party may give notice to the other party, of its intention to commence arbitration, in accordance with the provisions of the Arbitration and Conciliation Act, 1996 and the venue of arbitration shall be at Ahmedabad. The decision of the Arbitrator shall be final and binding on both the parties.
- (iii) Any disputes are subject to exclusive jurisdiction of Competent Court and Forum at Ahmedabad, Gujarat, India only.

### **32. Insolvency etc:**

In the event of the firm being adjudged insolvent or having a receiver appointed for it by a court or any other order under the Insolvency Act made against them or in the

case of a firm, the passing any resolution or making of any order for winding up, whether voluntary or otherwise, or in the event of the firm failing to comply with any of the conditions herein specified, Registrar, GUTS shall have the power to terminate the contract without any prior notice.

**33. Force Majeure:**

If, at any time during the subsistence of this contract, the performance in whole or in part by either party of any obligation under this contract is prevented or delayed by reasons of any war or hostility, act of public enemy, civil commotion, sabotage, fire, floods, explosion, epidemics, quarantine restriction, strikers lockout or act of God (hereinafter referred to as events) provided notice of happening of any such eventuality is given by party to other within 21 days from the date of occurrence thereof, neither party shall by reason of such event be entitled to terminate this contract nor shall either party have any claim for damages against other in respect of such non-performance or delay in performance, and deliveries have been so resumed or not shall be final and conclusive. Further, that if the performance in whole or in part of any obligation under this contract is prevented or delayed by reason of any such event for a period exceeding 60 days, either party may, at least option to terminate the contract.

**34.** All the queries regarding tender specifications and any other clauses included in tender document should be addressed to

Store In-Charge  
GUTS  
IKDRC-ITS Premises,  
Civil Hospital Campus,  
Asarwa, Ahmedabad-380016  
Ph.No.079-22687391, 079-22687127

I have read and understood all the above terms and conditions of tender in all and I hereby agree and abide by the same.

**Date:**

**Signature of Tenderer**

**Place:**

**Name of the Signatory**

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**Stamp/Seal**

## Annexure-II

### Technical Specification

Sr. No.	Item	Required Specification	Qty.	Make and Model No.	Specification available in offered Model Yes / No
<b>Transplantation surgery Department</b>					
1.	<b>Liver perfusion machine</b>	<ol style="list-style-type: none"> <li>1. It should be normothermic or hypothermic</li> <li>2. It should be portable to carry to peripheral centers for perfusion</li> <li>3. It should have automated calculation of metabolites like lactate, glucose, calcium, etc. and arterial blood gas analyzer</li> <li>4. It should have blood reservoir</li> <li>5. It should have system for ex vivo oxygenation of blood and the oxygenated blood should circulate to liver</li> <li>6. It should have high pressure- low flow and low pressure-high flow perfusion system for arterial and portal vein perfusion respectively</li> <li>7. It should have reservoir for bile accumulation</li> <li>8. It should have battery backup in case of power failure</li> <li>9. Disposables should be available freely</li> <li>10. It should have cart with wheels for transport</li> <li>11. It should have facility to supply nutrients ex vivo to the liver graft.</li> </ol> <p>If such machine cannot be purchased from the market, it may be taken on lease.</p>	1		
2.	<b>Kidney perfusion machine OR machine perfusion to procure organs from non-heart beating deceased</b>	<ol style="list-style-type: none"> <li>1. It should be normo-thermic or sub-normothermic</li> <li>2. It should have auto-regulation of blood or blood product or other fluid transfusion/ infusion with desired pressure and flow</li> <li>3. It should have container to perfuse and preserve kidney (&amp; possibly all abdominal organs)</li> <li>4. It should be transportable and should have battery back-up</li> <li>5. Disposables should be available freely</li> </ol>	1		

3.	<b>Automated biochemical analyzers (comprehensive metabolic panel)</b>	<ol style="list-style-type: none"> <li>1. It should measure Total bilirubin (both conjugated &amp; unconjugated preferable), liver enzymes like Aspartate transaminase(AST), Alanine Aminotransaminase (ALT), Gamma glutamine Transaminase (GGT), alkaline phosphatase (ALP), Transaminase (GGT), Lactate dehydrogenase (LDH), Total serum proteins (albumin, globulin preferable), blood gases, glucose, amalyse, urea, creatinine, ionised calcium, sodium, potassium, magnesium.</li> <li>2. Measurement of prothrombin time, tissue plasminogen activator, factor X</li> <li>3. Measurement of Nutrophil Gelatinase-associated lipocalin (NGAL) &amp;/or Kidney injury molecule 1(KIM-1)</li> <li>4. It should be fully automated, compact &amp; portable suitable for use at movable place and outdoor.</li> <li>5. It should have Built-in thermal printer &amp; External printer.</li> <li>6. It should have Auto QC and real time Calibration.</li> <li>7. It should have minimum Memory Capacity upto 5000 patients</li> </ol>	1		
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**Physiotherapy Department**

4.	<b>Movement Therapy System for upper and lower limbs</b>	<ol style="list-style-type: none"> <li>1. The unit should have the facility for Lower limb and upper limb exercise in spine position.</li> <li>2. The unit should show training analysis and performance analysis with muscle tone.</li> <li>3. The unit should display current date and time, performance ,energy, no of spasm and watts</li> <li>4. The unit should have on/off facility for spasm detection.</li> <li>5. The unit should have movement protector and spasm control facility.</li> <li>6. The unit should be able to fit to any type of patient bed with locking facility.</li> <li>7. The unit should have facility to adjust distance horizontally towards the patient.</li> <li>8. Should have safety foot shells for feet and leg guides with calf shells to secure support for the legs.</li> <li>9. Electronic leg insertion aid to help for inserting and removing the legs with LCD display.</li> <li>10. Range of motor power in steps: up to 10 N</li> <li>11. Velocity range: 0-60 rpm</li> </ol>	3		
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		<p>12. Therapy time from 0 to 120 minutes.</p> <p>13. The unit should have chip card reader in the operating panel to save the training data.</p> <p>14. The unit should have servo cycling mode</p> <p>15. The unit should have symmetry training in a clear 2-bar- diagram and analysis in percentage.</p> <p>16. The unit should have minimum 13 therapy programs with edit function.</p> <p>17. The unit should have gear shift control in the range of 1-20 steps</p> <p>18. The unit should have active/passive biofeedback. Parameters on display should change automatically to provide current information to the user.</p> <p>19. The unit should be supplied with hand grips with quick release system, chasis with ground fixation, knee bending adjustment with crank handle, hydraulic adjustment, safety foot shells, handles, rotator panel with colour screen display.</p> <p>20. The unit should have International safety standards CE/TUV.</p>			
5.	<b>Vo2 max analyzer with spiroergometry</b>	<p>The system must have:  A true Breath – By – Breath wireless / telemetry  Exercise testing system</p> <p>1. True Bi-Directional Telemetry Which Must Provide:</p> <ol style="list-style-type: none"> <li>Selectable parameters relayed to test subject during test</li> <li>Ability to send acoustic messages to test subject at any time during a test</li> <li>Acoustic messages must be able to be sent in any language</li> <li>Ability to operate the system and view the data from a remote PC or Notebook computer</li> </ol> <p>2. Data Logger Must Have 8mb Ram Providing Up To 48 Hours Of Continous Recording</p> <p>3. Data Logger State Must Be Able To Be Displayed Continuously During A Test</p> <p>4. Must Weigh Less Than 600 G Without Battery</p> <p>5. Battery Must give recording up to 15 hours</p> <p>6. Internal Battery Must Be Built-In To Instrument Case</p> <p>7. Must Have Mains Supply For Continuous Use</p> <p>8. Automatic Zero Adjustment Enforced Before Each Test</p>	1		

		<p>9. Two Point Calibration Must Only Be Required Once Every 4 Weeks.</p> <p>10. Must Have Continous On The Fly Calibration Enabling All Calibration Data To Be Constantly Referenced During Every Test.</p> <p>11. Oxygen Sensor Must Be Of An Electrochemical Fuel Cell Type Providing The Following Specifications:</p> <ul style="list-style-type: none"> <li>a. Range: 0-60%,</li> <li>b. Response time: T90 &lt;90ms</li> </ul> <p>12. Software Must Have Windows Outlook Style User Interface and should be able to run on windows 10, 8 or 7.</p> <p>13. Software Must Include Graphical Design Interface For Work Load Device Control</p> <p>14. Software Must Enable Heart-Rate Controlled Work Load Protocols Providing Device Control</p> <p>15. Software Must Have Completely User Definable Testing And Analysis Screens</p> <p>16. Equipment Should Be Supplied With Basic Calibration Kit Capable Of Performing Gas, Volume And Barometric Routine Calibration Of The System.</p> <p>17. Should Have Free Software Upgrades Through Out The Life Of The Equipment.</p> <p>18. Software Should Be Able To Control Ergometer And Treadmill.</p> <p>19. Software Should Control Ecg Devices, Heart Rate Devices, Spo2 Devices And Blood Pressure Devices.</p> <p>20. System Should Be Able To Execute Pulmonary Function Tests</p> <p>21. System Software Should Be Workflow Based, And Can User Can Have Different Workflows For The Examination And /Or Evaluation</p> <p>22. System Should Measure The Maximum Flow Volume Loop</p> <p>23. System Should Calculate VT1 (AT) , VT2 (RCP) , V'O2MAX ETC</p> <p>24. System Should Measure And Analyze The VC, FVC, MVV</p> <p>25. Should Have A Flowchart-Interpretation Of Wasserman</p>			
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6.	<b>Bio Electric Impedance</b>	<p><u>1. Measurement System:</u> Tetra-polar Bioelectrical Impedance Analysis</p> <p><u>2. Measurement Range:</u> Three diff frequency (5 kHz, 50 kHz, 500 kHz)</p> <p><u>3. Measurement accuracy:</u> Impedance: 2-3 &amp; Reactance: <math>\pm 1</math> &amp; Phase angle: <math>\pm 0.2^\circ</math></p> <p><u>4. Calibration:</u> Automatic internal calibration check</p> <p><u>5. Configuration /PC communication:</u> Wireless/2 lead wires (removable)</p> <p><u>6. Operating temperature:</u> 0-60°C</p> <p><u>7. Battery operated unit:</u> Maintenance free</p> <p><u>8. Display options:</u> Fat mass, Lean/Fat free mass, Dry clean mass, total body water, BMR, BMI, ECW, ICW,BFMI, FFMI, Nutrition index, Body cell mass.</p> <p><u>9. Accessories:</u> Spare cable: 5 no's Disposable electrode (short &amp; long): 500 no each Calibrator: 2 no's Software with alternative predictive equations: 1 No Computer &amp; printer with UPS (5kva), giving min backup of 4hrs Required batteries: 6 nos.</p>	<b>1</b>		
7.	<b>Hydraulic Hand Dynamometer</b>	<p>1. Ideal for routine screening of Grip strength &amp; initial and on-going evaluation of clients with Hand trauma and dysfunction.</p> <p>2. leak-proof hydraulics and isometric design should ensure accurate, reproducible results and years of reliable service.</p> <p>3. A shock-resistant rubber cap should protect the stainless-steel gauge and a wrist strap prevents accidental damage if dropped.</p> <p>4. Dual scale readout displays should measure isometric grip force from 0 to 200 lbs. (90 kg.).</p> <p>5. Peak hold needle should automatically retains the highest reading until reset.</p> <p>6. Die cast aluminum handle should adjust to five grip positions, from 1.3/8" to 3.3/8", in half inch increments.</p> <p>7. Should be with carrying / storage case &amp; complete instructions.</p>	<b>1</b>		

8.	<b>Spirometer</b>	<ol style="list-style-type: none"> <li>1. Flow range: -10 to +16 liters/sec</li> <li>2. Max volume: 8 liters</li> <li>3. Accuracy: +/-1%</li> <li>4. Transducer: Bi-directional turbine cartridge</li> <li>5. Turbine sensor: Infrared interruption</li> <li>6. Flow detection: Volume differential</li> <li>7. Measurement parameters: FVC, FEV1, FEV1/FVC%, PEFR, SVC, MVV Lung age calculation, Flow-volume/Volume-time graphs, Pre-post bronchodilation test, Trends, Auto interpretationetc.</li> <li>8. Predicted equations: Indian predicted equations</li> <li>9. Power supply: USB powered</li> </ol> <p>Proper safety and regulatory standards should be Followed With Hand set, turbine transducer, software CD, USB cable, Reusable and disposable mouth pieces, Adult nose clip.</p>	<b>1</b>		
<b>Critical Care Department</b>					
9.	<b>Nitric oxide delivery system</b>	<ol style="list-style-type: none"> <li>1. It should have be compatible to most of the commonly used ventilators</li> <li>2. It should have a wide range of Nitric oxide delivery from 0.1 - 80 ppm with graded resolutions</li> <li>3. It should have Gas monitoring for Oxygen, Nitric oxide and Nitrogen dioxide</li> <li>4. It should work on A/C Power and also have battery backup present</li> <li>5. It should have both audible and visible alarms for <ol style="list-style-type: none"> <li>a. High and Low NO alarm</li> <li>b. High and Low Oxygen alarm</li> <li>c. High NO2 alarm</li> <li>d. Delivery failure alarm</li> <li>e. Low battery alarm</li> <li>f. Service alarm</li> <li>g. Calibration alarm</li> </ol> </li> <li>6. It should be portable</li> <li>7. It should be mounted on trolley</li> <li>8. It should come with NO cylinder</li> </ol>	<b>1</b>		

10.	<b>High Frequency Oscillatory ventilator</b>	<ol style="list-style-type: none"> <li>1. It should be use both in children and adults.</li> <li>2. It should have Continuous Bias Flow : 0–60 liters per minute (LPM)</li> <li>3. It should have Mean Pressure Adjust from at least 5 to 50 cm H2O</li> <li>4. It should have settings for Mean Pressure Limit</li> <li>5. It should have Oscillator frequency from 3–15 Hz</li> <li>6. It should have adjustable Inspiratory time</li> <li>7. It should have Inlets for Oxygen and air with relief valves and outlet to humidifier</li> <li>8. It should have pressure control valve , pressure limit valve</li> <li>9. It should work on A/C power.</li> <li>10. It should also have Battery backup.</li> <li>11. It should have the following Safety Alarms with both Audible and visual indicators <ol style="list-style-type: none"> <li>1. Low airway pressure alarm</li> <li>2. High airway pressure alarm</li> <li>3. Overheating alarm</li> <li>4. Battery alarm</li> <li>5. Power failure alarm</li> <li>6. Oscillator failure alarm</li> </ol> </li> </ol> <p>It should be mounted on a trolley and can be taken to the bed side</p>	<b>1</b>		
<b>Anesthesia Department</b>					
11.	<b>General Specifications for all Manikins:</b>	<ol style="list-style-type: none"> <li>1. The colour of the manikin should be Caucasian simulating Indian adult in medium skin tones.</li> <li>2. The material of the manikin should be of polyvinyl and silicone rubber, free from any carcinogenic agents.</li> <li>3. The texture of the manikin should be soft and smooth and close to the feel of adult skin as relevant. The texture must be friction free to demonstrate the desired procedure.</li> <li>4. The internal parts of the manikin must be realistically sculpted, anatomically accurate and feel must be smooth/resilient/bony as relevant and suitable for simulation.</li> <li>5. The manikins must be portable and any fittings used in manikins must be of aluminum or polycarbonate or equivalent.</li> <li>6. The manikin’s durability must be of minimum 3 years.</li> <li>7. The material of the manikin should withstand extremes of temperature (up to 45 degree Celsius).</li> </ol>			

		<p>8. All manikins should include a soft/Hard carrying Case study questions, Do's and ©'s, instructions manual, maintenance guide, background information, user manual with trouble shooting guidance, technical manual with maintenance and first line technical intervention instructions and any other relevant teaching /training materials in English.</p> <p>9. The manikins should have additional accessories as listed and also talcum powder or silicone gel to avoid friction, list of accessories and spare parts with cost and local contact details of its supplier.</p>			
11 (A).	<b>Airway Managem ent Trainer</b>	<p>The Airway Management Trainer incorporate the following element Tongue/teeth Yes</p> <p>Procedures:</p> <ol style="list-style-type: none"> <li>1. Intubation Procedures <ol style="list-style-type: none"> <li>(A) Tracheal (oral and nasal)</li> <li>(B) Pharyngeal (oral and nasal)</li> <li>(C) Esophageal</li> <li>(D) Bronchial (available with optional bronchial tree)</li> </ol> </li> <li>2. The Airway management Trainer (hereinafter referred to as "AMT") shall be an airway training manikin mounted on practice board.</li> <li>3. The AMT must be able to provide realistic and complete training in all intubation procedures tracheal-oral and nasal and the use of the Laryngeal Mask Airway and Combitube.</li> <li>4. The AMT must provide realistic anatomy, nostrils. Lips, teeth, tongue, Pharynxoral and nasal, larynx with glottis opening, vallecula, arytenoids, vocal cords, sub glottiscricoid ring, trachea, including carina lungs, esophagus and stomach.</li> <li>5. The AMT must provide realistic head positioning. Neck flexion, extension and rotation, head lift and jaw move ability.</li> <li>6. The AMT must provide realistic complications as laryngospasm, vomiting and with excessive laryngoscope pressure on teeth will produce and audio signal.</li> </ol>	<b>1</b>		

		<p>7. The AMT must provide realistic checking for proper tube placement with visual inspection of lung expansion during ventilation, and auscultation of breathing sounds. A separate model for demonstration airway anatomy shall be provided.</p> <p>8. The AMT must establish and maintain an open airway by head tilt, chin lift, neck lift and jaw thrust.</p> <p>9. The AMT should permit realistic practice in lung ventilation, also with the use of non-invasive equipment.</p> <p>10. The AMT must provide the possibilities for practical training in clearing the obstructed airway by suctioning liquid foreign matter from oral cavity, oro-or nasopharynx, oro-or naso trachea, via end tracheal tube. Gastric drainage may also be practiced.</p> <p>11. The AMT will come complete with a sturdy carrying case, directions for use, sanitation kit, lubrication spray and a container of simulated stomach contents.</p>			
11. (B)	<b>Difficult Airway Training</b>	<p>1. The difficult airway trainer manikin should allow instructor to teach difficult airway protocol.</p> <p>2. The manikin should have inflatable tongue to simulate obstructed airway and is designed for training the management of difficult airways.</p> <p>3. The manikin should have inflatable tongue to simulate obstructed airway or tongue edema.</p> <p>4. Anatomically correct internal anatomy facilitates airway management skills using manual maneuvers and mechanical devices.</p> <p>5. The air way should allow for insertion of standard airway devices with addition of the LMA, Combitube and King LT.</p> <p>6. Should allow Oropharyngeal and nasopharyngeal airway insertion.</p> <p>7. Should allow endotracheal and right mainstem intubation.</p> <p>8. Should allow Needle or surgical cricothyrotomy.</p>	<b>1</b>		

		<p>9. Should allow Retrograde intubation.</p> <p>10. Should allow Bag-Valve-Mask ventilation.</p> <p>11. Should allow Tracheal suctioning.</p>			
11. (C)	<b>Adult Arterial IV Arm Trainer</b>	<p>The Arterial IV kit is a complete training kit which includes a full-size adult right arm with replaceable skin and arteries designed for training the proper arterial puncture procedure for blood gas analysis.</p> <p>Features:</p> <ol style="list-style-type: none"> <li>1. Anatomically accurate full arm model</li> <li>2. Simulation of hand placement during performance of Allen’s Test is possible.</li> <li>3. Flexible wrist enables proper positioning.</li> <li>4. Arterial Pressure may be generated manually.</li> <li>5. Artery Palpation is possible.</li> <li>6. Percutaneous puncture sites in both brachial and radial artery.</li> <li>7. Infusible arteries, with ability to pressurize system, enable blood backflow in syringe.</li> <li>8. Drain plug in deltoid of arm.</li> </ol>	<b>1</b>		
11. (D)	<b>Epidural And Lumbar Puncture Training Manikin</b>	<ol style="list-style-type: none"> <li>1. The simulator should be designed to teach the lumbar puncture and epidural procedures, allowing hands-on training without the need for direct patient contact.</li> <li>2. Manikin should be as life like lower torso with realistic tissue resistance and the puncture sites not visible on skin.</li> <li>3. A separate articulated lumbar Spine model (L2-L5) to be provided to aid anatomical understanding</li> <li>4. Puncture Block should be quick, easy to replace and transparent to allow viewing of the vertebrae (L2-L5) and the associated puncture sites. The outer skin should also be quick and easy to remove.</li> <li>5. Manikin should have variety of puncture pads like adult normal, adult obese, elderly, elderly obese and epidural.</li> <li>6. Manikin should be able to be in both laterals and sitting and should be able to teach patient management.</li> <li>7. It should have facility for palpation of pelvic landmarks, palpation of lumbar spinous process, collection of cerebrospinal fluid (CSF) pressure measurement, needle positioning and insertion and skin preparation skill.</li> </ol>	<b>1</b>		

11. (E)	<b>Central line manikin with neck pad</b>	<ol style="list-style-type: none"> <li>1. The central line training manikin should allow students practicing of intravenous access techniques for both advance cardiac life support and trauma situation.</li> <li>2. It should enable students to experience realistic procedures.</li> <li>3. The puncture areas for i.v. access should be simulated by soft pads which should be covered by a realistic skin and should simulate the feel of human skin as closely as possible</li> <li>4. Manikins veins inside the pads should provide a natural resistance during puncture and a natural flash back of blood</li> <li>5. Manikins veins and skin will self seal so that the site of puncture is not visible to student</li> <li>6. The Manikins pads must pre-filled with simulated blood</li> <li>7. It should enables the practice of i.v. access to: i. External jugular vein ii. Internal jugular vein via the anterior, central and posterior approach iii. Subclavian vein iv.</li> <li>8. It should have a pulse bulb to enables the trainer to create a palpable pulse in the manikin's arteries</li> <li>9. It should allow long catheters can be placed into the manikin.</li> <li>10.It should have realistic tissue feel.</li> <li>11. The neck pad should be replaceable without use of any tool</li> <li>12. User manual and a carrying case.</li> </ol>	<b>1</b>		
11. (F)	<b>Nerve Blocks</b>	<p>Supra clavicular Brachial Plexus block and axillary block</p> <ul style="list-style-type: none"> <li>• Each model offers anatomically correct brachial plexus and vascular access anatomy of the upper thorax and neck. This next generation ultrasound mannequin contains improved anatomy for nerve blocks including the supraclavicular nerves, interscalene nerves, infraclavicular nerves and enhanced access of the posterior interscalene nerve block approach. The brachial plexus can be injected with simulated anesthetics to verify needle tip location and to practice the entire anesthesia procedure.</li> <li>• Injected simulated anesthetics are expelled allowing for repeated use.</li> </ul>	<b>1</b>		

		<ul style="list-style-type: none"> <li>Extremely realistic external and internal anatomy for ultrasound guided or blind insertion training</li> <li>The most realistic and durable nerve block ultrasound training model available anywhere</li> </ul>			
<b>Reproductive Medicine and Surgery Department</b>					
12.	<b>Next Generation Sequencer</b>	<ol style="list-style-type: none"> <li>The System should be a simple bench top instrument to support various applications like: Gene expression profiling, Genomic sequencing (de novo/ re-sequencing) for bacteria, viruses and other small pathogens, Targeted Sequencing (Variant validation), Deep sequencing (virus, Broad sequencing e.g. exons) and more advance applications like CHiP seq, mi RNA and small RNA profiling and sequencing. Human application such as PGS could be done.</li> <li>System should be user friendly with simple chemistry using DNA polymerase and natural nucleotides. Semiconductor based ‘non- optical’, cost effective systems with higher throughput and sensitivity will be preferred.</li> <li>System should have an scalability regarding the read length varying from , 200 base pair and 400 base pairs and throughput varying from 10MB, 100 MB to 2GB with a high raw data accuracy depending on the application and running cost. It should also have an option of barcodes for 96 sample multiplexing.</li> <li>System should have a short sequencing run time of ~ 2hrs with very low running cost.</li> <li>The system produce simple and clear report for every sequencing run in HTML and PDF versions for easy viewing and data distribution</li> </ol>	<b>1</b>		
13.	<b>Real Time PCR Specificatio n</b>	<ol style="list-style-type: none"> <li>A dedicated multicolor Real Time PCR system (excitation and emission) with latest generation Peltier-based 96-well Plate/tube in-built PCR to support: <ol style="list-style-type: none"> <li>Gene-Expression analysis,</li> <li>Pathogen Quantitation,</li> <li>SNP Genotyping,</li> <li>Plus/Minus Assays that utilize internal positive control,</li> <li>Dissociation Curve Analysis,</li> <li>Multiplexing and complete End-Point Assays.</li> </ol> </li> </ol>	<b>1</b>		

		<ol style="list-style-type: none"> <li>2. Bright White LED Light Source for excitation.</li> <li>3. System Should have 6 variflex zone for different Temperature set up.</li> <li>4. Machine should have 6 decoupled filters Optical Detection</li> <li>5. Multiplexing must be upto 6 targets and upto 21 Color combination should be possible.</li> <li>6. Machine must have 2D barcode reading facility(Optional)</li> <li>7. Peltier base Heating and Cooling Method</li> <li>8. Optical System: Optiflex</li> <li>9. Imaging System : CMOS</li> <li>10. Dynamic Range : 10 Log</li> <li>11. Temperature uniformity : 0.4 °C</li> <li>12. Temperature Accuracy : 0.25°C</li> <li>13. System should have Block ramp rate : 6.5 C or more</li> <li>14. Run Time should be less than 30 Mins</li> <li>15. Number of Copies : 1 copy</li> <li>16. Sensitivity : Detect differences as small as 1.5-fold in target quantities in singleplex reaction\</li> <li>17. System must have facility for ROX Normalization.</li> <li>18. Total reaction volume range 10 uL to 100 uL for 96 well plate.</li> <li>19. Application software like dedicated primer and probe design software as well as relative quantitation analysis software to analyze multiple 96-well-plates of data simultaneously must be included as standard supply in the quoted price.</li> <li>20. Computer: A business line computer (either notebook or tower) with latest computer specifications should be provided with the system.</li> <li>21. The amplification traces viewed on the LCD screen in real time while a run is in progress with interactive touch screen facility.</li> <li>22. The supplier should be able to supply all the reagents and consumables for the operation of the system</li> </ol>			
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14.	<b>Automated DNA Sequencer</b>	<p>Fully automated capillary, fluorescence-based DNA Sequencer.</p> <ol style="list-style-type: none"> <li>1. Number of capillaries: 8 Capillaries operating in parallel to meet throughput. Employ capillary arrays that use bare silica capillaries.</li> <li>2. Excitation source: Long-life, Single line 505 nm solid state laser utilizing a standard power supply and without heat removal ducting</li> <li>3. Dye detection: Cooled CCD detection technology and a spectrograph for color separation. System must be able to detect and analyze up to 6 unique dyes simultaneously for DNA fragment analysis</li> <li>4. Capillary illumination: Simultaneous dual-side illumination detection system to maximize signal sensitivity and uniformity that in turn reduces the requirements placed on the user for sample preparation and cleanup.</li> <li>5. Tracking of consumable: Radio-Frequency identification technology to track key consumables data.</li> <li>6. Heating/cooling: Active temperature cooling/heating that can maintain temperatures from 18°C to 70°C.</li> <li>7. Throughput (samples/day) is determined by the total number of samples that can be run in 20 hours (allows time for sample preparation, instrument maintenance, and warm-up).</li> <li>8. Electrophoresis Voltage: Up to 20 kV.</li> <li>9. Suitable Computer must be supplied with Instrument.</li> <li>10. Software: DNA Sequencing Software should be provided along with instrument.</li> <li>11. Vendor should have at least 10 installations (includes all the available models) in India</li> </ol>	<b>1</b>		
<b>Pathology Department</b>					
15.	<b>Fully Automated Immuno histochemistry  Stainer</b>	<ol style="list-style-type: none"> <li>1. General Characteristics <ul style="list-style-type: none"> <li>Slide Tray -1-30 slides with independent temperature control for each position</li> <li>Capability – IHC, ISH and FITC slide processing</li> <li>Reagent Carousel – 35 reagent positions</li> <li>Slides – 25 x 75 mm, 1 x 3 in or 26 x 76 mm positively charged slides</li> </ul> </li> </ol>	<b>1</b>		

		<p>Bulk Reagents – Up to seven different bulk reagents in 3 to 6 liter on-board containers</p> <p>Configurations – Floor mounted</p> <p>Certifications – CSA and CE compliant</p> <p>2. <b>Temperature Control</b></p> <p>Individual Heater Pad – 99• Fto 212• F</p> <p>Temperature Range – (37• C to 100• C ± 2.0• C)</p> <p>3. <b>Environmental Requirements</b></p> <p>Heat – Output 400 BTU/Hour idle, 1000 BTU / Hour running</p> <p>Operating Temperature – 68• Fto 90• F (20• C to 32• C)</p> <p>Humidity – 10%to 90%, non-condensing</p> <p>Location – Flat, level surface. No direct sunlight or drafts. Remove from sources of direct heat and moisture.</p> <p>For indoor use only.</p> <p>Power Connection – Cord suited to country.</p>			
16.	<b>TB - PCR</b>	<ol style="list-style-type: none"> <li>1. The System should also have the cartridges which can do TB detection from Pulmonary as well as Extra Pulmonary (All body fluids &amp; Tissues) Samples along with Rifampicin Sensitivity/ Resistance.</li> <li>2. The System should be based on Automated Real Time PCR Technology including automated extraction and able to do Rapid on-demand Molecular tests such as MTB, HCV, HIV, HPV, EV, BCR/ABL, Flu etc.</li> <li>3. The System should be based on the Single Cartridge use, eliminates problem of Bio-Hazards.</li> <li>4. The System should have the cartridges for the Quantitative detection of HCV, HIV, HPV Viral Load beside other markers.</li> <li>5. The System should be controlled through stand-alone laptop or Desktop PC and it should be provided with compatible printer.</li> <li>6. The System should have at-least 4 Active Modules which are independently used and controlled for any test cartridge.</li> </ol>	<b>1</b>		

		<p>7. The System should offer up to 5 to 6 Optical Channels</p> <p>8. Each Active Module should have Solid State heater and forced air cooling</p> <p>9. The System should have the endorsement of WHO.</p> <p>10. The system should include built-in (quality) control for all test steps.</p> <p>11. The System should be able to performed on-demand and random access</p> <p>12. The system should be easily connected to LIS/HIS if required</p> <p>13. The System should require no special (lab or PCR) environment to operate effectively.</p> <p>14. It should have a dedicated program for precision study. Vendor must provide QC software to manage QC data of the laboratory as per NABH/NABL requirements.</p>			
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Date:  
Place:

Name:  
Signature & Seal of the Bidder

**ANNEXURE – III**

**TENDER SUBMISSION FORM**

From: M/s. \_\_\_\_\_ Ph.No. \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

To: The Registrar,  
GUTS,  
IKDRC-ITS Premises,  
Civil Hospital Campus,  
Asarwa, Ahmedabad-380016

Sub : Supply, installation and commissioning of Medical Equipments / Instruments & other miscellaneous products

Tender Enquiry No.: \_\_\_\_\_

Dear Sir,

1. I/We hereby submit our tender duly signed & stamped (No thumb impression should be affixed) alongwith necessary documents for the

\_\_\_\_\_

2. I/WE are enclosing herewith the Demand Draft No..... dated..... for Rs...../- and Demand Draft/Bank Guarantee No..... dated..... for Rs...../- drawn in favor of GUTS, Ahmedabad (payable at Ahmedabad) towards Tender Fee and EMD respectively.

3. I/We have gone through all terms and conditions of the tender documents and hereby agree to abide by all the terms and conditions, stipulated in the tender notice in connection with delivery, warranty, penalty etc.

4. Commercial Bid for each item is being submitted under separate covers.

5. I/We have noted that overwritten entries shall be duly cut & rewritten and initialed.

6. I/We verify that the copies of the certificates / documents attached herewith are authentic true copies of the original certificates / documents and I/We undertake to produce the original certificates / documents for verification on demand. I/We undertake to supply the attested copies of certificate / documents required at the time of signing the letter of agreement if my/our offer is accepted.

7. I/We undertake to sign the contract/agreement, if required, within 60 (Sixty) days from the date of issue of the letter of acceptance, failing which my/our security money deposited may be forfeited and my/our name may be removed from the list of suppliers.

8. I/We verify that I/We are in possession of the requisite licenses / permits required for the manufacturer / supply / sale /distribution of the items and further verify that the said licenses / permits have not been revoked /cancelled by the issuing authorities and are valid as on date. I/We also verify that I/We have not been blacklisted / debarred / stopped from supply of the items quoted in the Tender Enquiry by any Government Department / Organization / undertaking in India.

9. I/We also take cognizance of the fact that providing misleading or questionable information or failure to furnish correct or true information to you or any other Direct Demanding Officer or failure to comply with any contractual terms and conditions laid down by you / them will be considered as a serious breach of the terms and conditions of the tender and will invite disqualification and other penal action as deemed fit by the Purchase Committee of the GUTS.

Yours faithfully,

Name, Address and phone no. of the person, signing the tender:

Office:  
Mobile:

Residence:  
Fax:

Place:

Signature & Seal of the Bidder

Date: \_\_\_\_\_

## Annexure – IV

### MANUFACTURER'S AUTHORISATION FORM

(To be submitted for Imported items by authorized dealers/representative)

Tender Enquiry No :

**Dated:**

Equipment Name :

Dear Sir,

1. I/We ..... (name of the OEM) are the original manufacturers of the above equipment having registered office at ..... (full address with telephone number/fax number & email ID and website), having factories at \_\_\_\_\_ and \_\_\_\_\_ , do hereby authorize M/s. \_\_\_\_\_ (Name and address of bidder) to submit tenders, and subsequently negotiate and sign the contract with you against the above tender no.

2. No company or firm or individual other than M/s. \_\_\_\_\_ are authorized to bid, negotiate and conclude the contract in regard to this business against this specific tender.

3. I/We shall notify the Registrar, GUTS immediately if there is any change in the agreement between M/s. ----- and me/us regarding authorized distributorship of our products.

4. I/We also hereby undertake to provide full guarantee/warranty /Comprehensive Annual Maintenance Contract as agreed by the bidder in the event the bidder is changed as the dealers or the bidder fails to provide satisfactory after sales and service during such period of Comprehensive Warranty / Comprehensive Annual Maintenance Contract and to supply all the spares/ accessories / consumables etc. during the said period.

5. We also hereby declare that we have the capacity to manufacture and supply, install and commission the equipments tendered within the stipulated time.

(Name)

For and on behalf of M/s. \_\_\_\_\_

(Name of manufacturers)

Date:

Signature of the authorised person

Place:

**Note: This letter of authority should be on the letterhead of the manufacturing concern and should be signed by a person competent and having the power of attorney to bind the manufacturer.**

**ANNEXURE V**

**Manufacturing Experience Certificate for last Three Years**  
(For Quoted Item)

The Production and Sales of \_\_\_\_\_ (Name of quoted item) of  
M/s \_\_\_\_\_ for the last three years are given below and  
certified that the statement is true and correct.

Sr. No	Year	Production	Sales
1	2014-15		
2	2015-16		
3	2016-17		

Date:

Seal

Signature of Chartered Accountant

## Annexure – VI

### **CHECK LIST OF DOCUMENTS TO BE SUBMITTED ALONGWITH TECHNICAL BID**

.	Check List	Submitted [Yes/ No/NA]	Validity (if applicable)	Page No
<u>1</u>	Letter from parent firm in case of authorized representative/dealer			
<u>2</u>	Valid Trade Licence / Manufacturing license/ Import licence (enclose the attested copy)			
<u>3</u>	PAN/TAN/ other statutory documents (enclose the attested copy of statutory documents)			
<u>4</u>	VAT/CST certificate clearly showing the class/classes of goods/services for which VAT/CST registration has been obtained (enclose the attested copy)		_____	
<u>5</u>	C.A. Certificate showing year wise production & sale of the quoted item for 3 years for Indian manufacturers only.			
<u>6</u>	VAT, Income Tax clearance certificate or Returns of last 4 quarters			
<u>7</u>	US (FDA) / CE / ISO / NABL certification			
<u>8</u>	Certificate that Model quoted is latest & Mandatory spare parts availability for 5 yrs. after warranty Certificate			
<u>9</u>	Warranty Certificate for 2yrs. or 5yrs. as applicable			
<u>10</u>	Mandatory CMC for 3yrs.or 5yrs. (as applicable) after warranty Certificate along with rates			
<u>11</u>	Mandatory AMC for 3yrs.or 5yrs. with full list of spares/accessories/consumables alongwith prize			
<u>12</u>	Certificate that firm has satisfactory service arrangements and fully trained staff available to support the uptime guarantee alongwith Name, Address, Contact No. & Email ID of Service Centre			
<u>13</u>	Expected life certificate of equipment			
<u>14</u>	Certificate that the firm has never been black listed/ debarred by any State/ Central Government / Undertaking / Organization for the items quoted at present			
<u>15</u>	Two sets of service manual, operating manual and circuit diagram in English language			
<u>16</u>	The Certificate that the quoted equipment have not been and are not being supplied to any other organization at a rate lower than being quoted here.			
<u>17</u>	User's list and certificate about satisfactory performance report of the equipment duly authenticated by at least 2 existing users of the equipment., if applicable			
<u>18</u>	Signed & stamped compliance sheet of the technical specification of the items with technical printed catalogue and technical data sheet of the Item			

**Note:**

- (a) If valid trade licence constitutes/consists of more than one certificate/page then all the pages are to be enclosed failing which tender is liable to be cancelled.
- (b) It is verified that all the certificates / permissions / documents are valid and current as on date and have not been withdrawn / cancelled by the issuing authority.
- (c) I/We further undertake to produce on demand the original certificate / permission / document for verification at any stage during the processing of the tender.

Date:

Name:

Place:

Signature & Seal of the Bidder

**Annexure – VII**  
**COMMERCIAL BID FOR INDIGENOUS ITEMS**

T.E No. -----

Due date-----

Name of the Equipment-----

Name of Manufacturer-----

Country of origin-----

Make-----

Model-----

Sr. No.	Details		Price in Rupees (Per Unit)	
A.	(i)	Ex-factory price Main equipment with standard accessories.		
	(ii)	<b>Optional Items</b>		
		(a)		
		(b)		
		(c)		
B.	Total Ex - Factory prices (i) + (ii)			
C.	Excise and other duties (if applicable) @ _____ %.			
	Total price excluding VAT (B + C)			
E.	VAT / C.S.T.			
	(i)	VAT @ _____ % OR		
	(ii)	C.S.T. @ _____ %		
F.	Service Tax @			
G.	Total F.O.R.D. price.			
H	Total Price in words Rs.			

**Note:-**

- (1) Optional items should be quoted separately. The prices for optional items if not required will be excluded for ranking purpose.
- (2) All terms and conditions of supply shall be applicable as per tender terms. Any terms and condition enclosed with Commercial Bid shall be ignored or in such a case offer is liable to be rejected.

**Place:-** \_\_\_\_\_

**Name:** \_\_\_\_\_

**Date:-** \_\_\_\_\_

**Signature & Seal of the Bidder** \_\_\_\_\_

## Annexure – VIII

### COMMERCIAL BID FOR IMPORTED ITEMS IN FOREIGN CURRENCY

T.E No. -----

Due date-----

Name of the Equipment-----

Name of Manufacturer-----Country of origin-----

Make-----

Model-----

Sr. No.	Details	Price in Foreign currency per unit.		Price in Indian currency per unit.
A.	FOB Price at port/Airport of lading			
	(i) ♦ Main Equipment with standard accessories shown in tender documents.			
	(ii) ♦ Optional Items:			
	(a)			
	(b)			
	(c)			
B.	Total FOB Prices (i + ii)			
C.*	Custom Duty @._____% with CDEC & NMIC (if applicable)	<b>Price in Indian currency per unit.</b>		
D.*	Carriage & Insurance (Port of loading to Port of entry) and other incidental cost			
E.*	Clearance & Handling charges (if any)			
F.*	Indian Agent Commission (IAC) @.....% of FOB + Service tax ( if applicable)			
G.	Total F.O.R.D. Price B + C + D + E + F	<b>FOB Price in Foreign currency</b>	<b>C + D + E + F in Indian currency</b>	
H.	Total Price in Words.			

**Note:**

- (1) Optional items should be quoted separately. The prices for optional Items if not required will be excluded for ranking purpose .
- (2) ♦ The rates of the main equipment with accessories and optional items should be quoted in foreign currency only.
- (3) All terms and conditions of supply shall be applicable as per tender terms. Any terms and condition enclosed with Commercial Bid shall be ignored or in such a case offer is liable to be rejected.
- (4) If possible, custom exemption certificate shall be provided by consignees if it is allowed under relevant act and issued by authority concerned.
- (5)\* The rates of custom duty & clearance charges / carriage & insurance charges from port to place of consignees / IAC should be quoted in Indian currency only. If IAC is not mentioned in the price bid, no claim for it shall be admissible after wards. IAC will be paid after final installation of the machine.
- (6) Custom Duty will be paid on actual or Quoted rate, whichever is less.
- (7) Clearance Charges will be paid on actual or maximum @ 1% of FOB Price, whichever is less.

**Place:-** \_\_\_\_\_

**Name:** \_\_\_\_\_

**Date:-** \_\_\_\_\_

**Signature & Seal of the Bidder**

## Annexure – IX

### COMMERCIAL BID FOR ANNUAL COMPREHENSIVE MAINTENANCE CONTRACT AFTER WARRANTY PERIOD

T.E No. ----- Due date-----  
Name of the Equipment-----  
Name of Manufacturer----- Country of origin-----  
Make----- Model-----

Years	*C.M.C. Rates (Rs.)	Applicable Taxes (%)	Applicable Taxes (Rs.)	Total Rate (Rs.)
1 <sup>st</sup> Yr.				
2 <sup>nd</sup> Yr.				
3 <sup>rd</sup> Yr.				
4 <sup>th</sup> Yr.				
5 <sup>th</sup> Yr.				
<b>Total Rs.</b>				
<b>(Total Rupees In words)</b>				

\* After completion of Warranty period ( for 3 yrs. or 5 yrs. as applicable)

**Note :-**

1. The cost of Comprehensive Maintenance Contract (CMC) which includes preventive maintenance including testing & calibration as per technical/ service /operational manual, labour and spares, after satisfactory completion of Warranty period may be quoted on yearly basis for complete equipment.
2. The rates of CMC may be quoted in Indian Rupees only alongwith taxes applicable. If not specifically stated, price will be taken inclusive of such taxes and no claim for the same will be entertained later.
3. All software updates should be provided free of cost during CMC period.
4. Quoted CMC price should not be more than 5% of FOB and escalation in the next year should not be more than 5%, otherwise offer will be out rightly rejected.
5. All terms and conditions of supply shall be applicable as per tender terms. Any terms and condition enclosed with Commercial Bid shall be ignored or in such a case offer is liable to be rejected.
6. The supplier shall keep sufficient stock of spares required during Annual Comprehensive Maintenance Contract period. In case the spares are required to be imported, it would be the responsibility of the supplier to import and get them custom cleared and pay all necessary duties.

**Place:-** \_\_\_\_\_

**Name:** \_\_\_\_\_

**Date:-** \_\_\_\_\_

**Signature & Seal of the Bidder** \_\_\_\_\_

**ANNEXURE X**  
**LIST AND RATES CONSUMABLES**

**T.E No.** .....

**Due date**.....

**Name of the Equipment**.....

**Name of Manufacturer**.....**Country of origin**.....

**Make**.....

**Model**.....

The following Reagents, Chemicals, Consumables & Spares are essential for this equipment without which it cannot be made Operational/ functional. All the reagents, chemicals, consumables and spares are covered under CMC except given below:-

(a) The list of reagents & chemicals:-

Sr. No.	Name of Reagents /Chemicals	Packing Unit	Price per Unit	Remarks

(b) The list of consumables:-

Sr. No.	Name of consumables	Packing Unit	Price per Unit	Remarks

(c) The list of spares parts:-

Sr. No.	Name of Spares	Packing Unit	Price per Unit	Remarks

The above mentioned rates (after negotiation, if any) would be fixed for the entire duration of contact including CMC & Warranty.

**Place:-** \_\_\_\_\_ **Name:** \_\_\_\_\_

**Date:-** \_\_\_\_\_ **Signature & Seal of the Bidder** \_\_\_\_\_