



**GOVERNMENT OF GOA  
Medical Store Depot (MSD),**

**Directorate of Health Services, Campal, Panaji, Goa 403 001**

**Email: msddhsgoa@yahoo.in/ddmsd-heal.goa@gov.in**

**Ph. Nos. 2225646/5540/5668**

**No. 86/DHS/MSD/PT/2020-21/342**

**Dated: 05/06/2020**

**TENDER NOTICE**  
**(E-Tendering Mode Only)**

1. E-tenders are invited by the Director, Directorate of Health Services Campal, Panaji Goa on behalf of the Governor of Goa up to **29/06/2020** till 5.00 p.m., for supply of Machinery and Equipments as listed in the Annexures
2. The tender forms with terms and conditions and list of the items, can be viewed and downloaded online on the website <https://goaenivida.gov.in>.
3. The tender “Quotation for Tender no. 86/DHS/MSD/PT/20-21/342 dated 5/06/2020 should be submitted online. Last date and time for submission of quotation online is **29/06/2020 at 5.00 p.m. Non-submission of tenders within the stipulated date and time will not be entertained.**
4. The following payments to be made online through e-payment mode towards Tender document Fee(TDF), e-Tender Processing Fee(TPF), and Earnest Money Deposit(EMD) to be paid online through e-payment mode via:
  - i. National Electronic Fund Transfer(NEFT)/Real Time Gross Settlement(RTGS)/Axis Bank Over the-counter(OTC).Tenderer requires download pre-printed challan towards credit of ITG available on e-tender website and make its payment through any of their bank.
  - ii. Internet Payment Gateway(Debit/Credit card of type VISA, MASTERCARD or RUPAY.
  - iii. NetBanking:Payment can be made through the Internet Banking of Any Bank.  
NOTE: Any Payments made through NEFT/RTGS/OTC will take 72 hours for its reconciliation. Hence the payments through NEFT/RTGS/OTC should be made at least **THREE BANK WORKING DAYS** in advance before any due date and upload the scanned copy of the challans in the e-Tender website as a token of payment and directly credit the amount to ITG account as generated by challan before **29/06/2020 by 5.00 pm** and the copy of NEFT/RTGS/OTC/ debit card/credit card/ net banking(Axis Bank) challan is to be scanned and uploaded along with the bid on the website prior to submitting the hard copies.

Note: For any query of FORM FEE, PROCESSING FEE and EMD (before doing the payment) please contact ITG help desk line two days before closing of tender date: Vibhav Rana- +919953256106, Sandesh Mandrekar – +919881740604

Sr. No.	Name of the item	Qty.	EMD	Cost of Tender	Tender Processing Fee
<b>ANNEXURE I</b>				Rs. 1000/-	Rs. 1500/-
1.	Bio-Medical Waste Automatic Autoclave	5	Rs. 1,20,000.00		
<b>ANNEXURE II</b>					
1.	Autopsy Table with Stationary Pedestal	3	Rs. 50,000.00		
2.	Autopsy saw with bone dust collector	3	Rs. 30,000.00		
3.	Head Rest	3	Rs. 70,000.00		
4.	Organ Scales with Readability Range of 1 gms to 4000 gms	2			
5.	Digital Floor Scale	1			
6.	Bone Dissection Kit	4			
7.	Autopsy Instrument Set	6			

5. The technical bids will be opened online on **03/07/2020** at 10.00 a.m. in the presence of the Purchase Committee members. No bid of the concerned bidders will be opened in case the bidders fail to make the e-payments towards the above costs after the mentioned date and time.
6. Hard copies of technical bids and financial bids of all the uploaded documents in two separate envelopes should also be submitted to this office along with the copy of NEFT/RTGS/OTC/debit card/credit card facility/ net banking (Axis bank) challans of cost of tender document, EMD and tender processing fees on or before **29/06/2020** by 5.00 p.m. Catalogues of all machinery/equipments should be submitted along with the technical bid.
7. The Quotation should be submitted online as per the annexure attached, along with the required documents/certificates. Hard copies of the same to be submitted to this department before the stipulated date and time.
8. The Offer should be firm. Conditional offer will not be considered.
9. The rate should be quoted F.O.R. Destination. Taxes to be mentioned separately.
10. The rates quoted should be valid for a minimum period of 24 months from the date of placement of first Order.
11. The delivery of the goods should be made within a period of one month or earlier from the receipt of the firm order, failing which the order will be treated as cancelled without further notice and Earnest Money Deposit will be forfeited in favour of the Government.
12. The supplier may insure the goods at his own cost to safeguard the delivery of such goods dispatched by him to the consignee, as this Department will not be responsible for the damage or pilferage of goods during transit.
13. The Director of Health Services reserves the right to accept the supply made by the supplier after the expiry of the stipulated delivery period in genuine cases.

14. The Director of Health Services is free to find the market rate of the product that it intends to procure. Final order will be placed to the successful bidder only after a thorough study and comparison of market rate of the product vis a vis the rate quoted by the lowest bidder is done.
15. All applications for the Refund of Earnest Money and the Security Deposits furnished with the Tender should be made only to The Director of Health Services with all the details of the e-payments made along with date and tender number for which it was submitted.
16. The quantities of the items listed in the Annexures are likely to increase or decrease. Orders will be placed depending on the need/requirements of the department, at that point of time. The Directors decision in this regard will be taken as final.
17. Tenderers who do not agree with the Terms and Conditions mentioned herein may not submit their bids.
18. If the Tenderer requires interpretation of any clause, the decision of the Director of Health Services should be taken as final.
19. The nationality of the Tenderer should be specifically mentioned in the Tender.
20. A hands on working demonstration/Samples may be required before opening of the financial bid. Unsatisfactory performance at demonstration will disqualify the Tenderer. In exceptional cases the technical committee will have the power to waive the demonstration.
21. The Tenderer should deliver and install the equipment in the concerned department of the Hospital/health centre, give the demonstration, and train the staff of the department free of cost. Delivery should be made as per the requirement anywhere in the state of Goa as mentioned in the order.
22. Price: The Tenderer shall note the scope of work viz. Supply, Installation & Commissioning of Machinery & Equipment, with delivery at site and shall furnish detailed price for machines and accessories as per Schedules attached. (I to VI) in the financial bid.
23. The tenderer should note that the scope of the work comprises of Supply, Installation and Commissioning of the mentioned Machinery & Equipment, Electrification. Safety equipments if required may be quoted separately. However decision of the committee to purchase the same will be final.
24. The Director of Health Services reserves the right to reject any or all tenders without assigning any reasons.
25. The Director of Health Services will not entertain any correspondence with regards to the tender once the lowest bidder is selected.
26. **Completion Period**  
The entire work of supply, Installation and Commissioning of the machine ordered including Mechanical & Electrical Works shall be completed in all respects within one month or earlier from the date of placement of the Order, failing which the successful tenderer will be liable for penalty of one fourth percent of the total value of the Order for each day of delay, subject to the maximum of 10% of the total value of the Order. The Director reserves the right to make risk purchase from the next highest Tenderer in case the successful Tenderer fails to

execute the order to the satisfaction of the Director within the time limit specified in the order, in which case the first successful tenderer shall be liable to liquidate damages, to compensate for the losses including price difference. The Director however reserves the right to waive the penalty/risk purchase in genuine and deserving cases.

27. The Tenderer should state whether the machine and its accessories offered is
  - a. Manufactured by them in India.
  - b. Machine parts imported and assembled by them in India.
  - c. In either case the tenderer should furnish the following details.
    - i. Full address of the factory where the machine is manufactured or assembled.
    - ii. The description of the machinery installed for the purpose.
    - iii. Name, Age & Qualifications and experience of the person employed for the purpose.
    - iv. The documentary evidence by the way of License, Registration Certificate or Any other document issued by a Competent Authority in state Government or Government of India authorizing the Tenderer or the principal to manufacture the machine or assemble the machine as the case may be.
    - v. Name & Address of the Hospital / Diagnostic Centre where the quoted machine has been supplied.
28. The Tenderer shall indicate whether they have got facility for undertaking major repairs of the machines and if so the following details may be furnished.
  - i. Full address of the place where repairs would be undertaken.
  - ii. Description of the machinery installed for the purpose.
  - iii. Name, Age, Qualifications and experience of the persons employed for the purpose along with their contact number.
29. The Tenderer shall ensure that the machine remains in working condition throughout 24 hours and accordingly quote their down time. They should indicate in details duly supported by facts and figures in what way and how they are going to keep the down time to the minimum. If the breakdown time exceeds 72 hrs then the tenderer will be liable for penalty @ Rs. 500/- per day, for each day of delay till the machine is put in working condition.
30. **GUARANTEE / WARRANTY PERIOD.**
  - I. The successful Tenderer shall guarantee the entire system which they will install such as Machine, proper accessories, Electrical gadgets etc; for trouble free performance for a period of two Years from the date of commissioning of entire work satisfactorily. Any defects noticed during the guarantee/ warranty period shall be rectified free of cost including free replacement of parts having manufacturing defects and or faulty workmanship.
  - II. The Tenderer shall clearly indicate the number of visits both “Demand” – (Emergency) and “Routine” for servicing /Check –up which they will undertake for replacement of spares etc. free of cost during guarantee/ warranty period.
  - III. The Tenderer shall certify that they will undertake/ enter into a 5 years Annual Maintenance Service Contract for a periodical check up/ servicing and Repairs of the Machine supplied, installed and commissioned by them for its full life span.
  - IV. The Annual Maintenance contract should include minimum 3 visits i.e. one visit in every 4 months, in addition all break down calls to be attended on top priority.
  - V. The tenderer should indicate the value of 5(Five)years maintenance contract (after sales Service), individually for each year as a figure (INR) for unit machine and not as a percentage for a period commencing from the date of the expiry of the guarantee / warranty period of TWO years.

31. **UPDATING OF THE MACHINE:**

The Tenderer shall specify life span of the machine which they quote and undertake to incorporate future development to update the machine as and when required. The difference in price of the replaced parts will be paid by the Directorate at manufacturer's price.

32. **UNDERTAKING FROM MANUFACTURERS /PRINCIPALS:**

The Tenderer shall furnish along with the tender, an undertaking from their Principal/manufacturer of the machine, that in the event their association/relations with their Principals/manufacturers of the machine either by the way of sole agency/exclusive distributorship or their representative is terminated or discontinued for one reason or the other by the manufacturers/principals or the tenderer themselves during the life span of the machine, then they would take over /assume or make arrangement to take over /assume to the full satisfaction of the Director of Health Services, the commitments and other obligations which the Tenderers have made to the Director of Health Services.

33. **TAX, EXCISE DUTY, AND OTHER LEVIES:**

Taxes as applicable and as amended by Government from time to time should be specifically mentioned, failing which no claim for taxes etc. will be entertained at a future date.

34. **INSURANCE:**This being Government institution equipment will not be insured by us. They have to be insured by the successful tenderer at their own cost to ensure reaching of the equipment dispatched by them at the destination.

35. **TERMS OF PAYMENT:**In Indian rupees vide ECS.

36. In the event of any dispute or difference between the parties hereto in relation to with this tender, the court in Goa shall have exclusive jurisdiction to adjudicate such dispute or difference.

37. **A Prebid meeting will be held on 18/06/2020 at 10.00 am in the Seminar hall of Directorate of Health Services, Campal, Panaji- Goa. No suggestions /querries will be entertained after this prebid meeting.**

Sd/-  
(Dr. Jose D'Sa)  
Director of Health Services

## **TECHNICAL BID**

The quotations should be clearly marked with Tender no. 86/DHS/MSD/PT/20-21/342 dated 05/06/2020 (Technical Bid) uploading the following documents:-

1. An Earnest Money Deposit as mentioned is to be paid online through e-payment mode via NEFT/RTGS/OTC/debit card/credit card facility/ net banking (Axis bank) with pre-printed challans available on e-tendering website and directly credit the amount to ITG account as generated by challan. Any deposit sent earlier for another tender will not be considered, even if the supplies in respect of the said deposit are completed. Earnest money deposit sent in any other form will not be accepted. The firms which are registered with DGS & D should also send Earnest Money Deposit. If any exemption on this behalf is required, they should produce an attested certificate from DGS & D that they are registered for supply of the category of the items covered under the above tender opening and still continue to be registered with them till date.
2. The successful Tenderer will have to submit Security Deposit of five percent of the items being ordered in the form of bank guarantee with a validity of two years from the date of installation/supply for due performance of the supply order. This security deposit will be refunded only after the completion of warranty period. Earnest money deposit will be refunded fully after the receipt of security deposit in case of successful tenderers. If the successful tenderer does not pay the security deposit, the invoices for the same will not be settled for payment and the order will be treated as cancelled. Also the EMD will be forfeited in favour of Government.
3. The successful Tenderer will have to submit an additional security deposit/Bank Guarantee valid for 5 years to the tune of 2 % of the cost of the equipment after completion of warranty period which will cover the entire maintenance period. If regular servicing is not carried out during the maintenance period the security deposit will be forfeited in the favour of the Government. The earlier bank guarantee of 5% will be returned after the submission of fresh bank Guarantee of 2% of the cost of the equipment valid for 5 years.
4. As per notification no. 3/40/2003-IND(Part) dated 8<sup>th</sup> September 2011 issued by Industries Department, Government of Goa, Secretariat, Porvorim Goa, only those Micro and small Enterprises having turnover not exceeding Rs. 10.00crores per annum for the preceding 3 financial years and acknowledged with Entrepreneurs Memorandum Part II by Director of Industries, Trade and Commerce shall be eligible for the benefit under this scheme. A copy of the certificate may be furnished.
5. The Stockist /Distributor who supplies the machinery on behalf of the Manufacturer should furnish/upload Authority letter for this particular Tender, to quote the items on their behalf wherever required.
6. After Sales Service: - The details of network of service centers in the state of Goa with complete address, phone no, fax no, e-mail ID, to be attached/uploaded.
7. The Director of Health Services reserves the right to reject any or all tenders without assigning any reasons.

8. ISO Certificate of the manufacturer / Company is mandatory and should be uploaded/ attached.
9. CE(European) certificate of the manufacturer / Company is to be furnished from a notified body and should be uploaded/attached only for Annexure I-Bio-medical waste automatic autoclave.
10. ISI certified equipments/instruments will be accepted only if CE(European) is not available at the discretion of the Purchase Committee. However, the decision of the Director will be final.
11. Information in the following format should be submitted for items quoted:-

Sr. no	Name of the item	Manufacturer and Model quoted	Equivalent specifications quoted by the Tenderer, with the name and address of the manufacturer with model	Whether the item quoted by the Supplier is as per the specifications asked for. Indicate against each item clearly – Yes/No	If the tender quoted is not as per specification then variation/deviation should be clearly indicated against each item asked for.	Authorization Letter Yes/No	ISI Yes /No	CE Yes /No	ISO Yes /No	NSIC /SSI	Remark

12. Name & Addresses of the Government or Private Institutions to whom such equipment's have been supplied especially in Goa, Karnataka & Maharashtra State may be indicated.

Sd/-  
(Dr. Jose D'Sa)  
Director of Health Services

## FINANCIAL BID

The quotation should be clearly marked as Envelope no 2 along with Tender No 86/DHS/MSD/PT/2020-21/ 342 dated 05/06/2020 and should be quoted for as per the Schedules I to VI attached.

1. Should contain any/all documents including any price.
2. The Price should be quoted in Indian Rupees on turnkey basis which should also indicate all taxes FOR destination separately.
3. While filling the respective annexure, if any cell is left blank the same shall be treated as "0". Therefore, if any cell is left blank and no rate is quoted by the bidder in the assigned column rate of such item shall be treated as "0" (ZERO) & will be treated as incomplete tender & will be rejected outright. Kindly enter the name of the bidder in the respective cell.
4. Safety equipments if required for machinery & equipment, to be quoted separately. However Director reserves the right to reject the purchase of the safety equipment. Director's decision in the matter will be deemed final.
5. Taxes as applicable and as amended by Government from time to time should be specifically mentioned, failing which no claim for taxes etc. will be entertained at a future date.
6. The rate quoted should be valid for minimum period of 24 months from the date of placement of first order.
7. Rates of AMC after the stated warranty period along with the number of visits, to be quoted **only for Annexure I Bio-medical waste automatic autoclaves showing yearly prices of unit machine separately upto 5 years (Year wise)**. Rates to be quoted in Indian Rupees as a figure and not as a percentage. The 5 years AMC rates will be considered while computing cost of the equipment.
8. Prices of spare parts / consumables required for the machine should be quoted separately.
9. The Financial bid of all the tenderers, whether technically selected or rejected can be viewed online. However, the technically rejected items/bids will not be taken into consideration for gradation.
10. The Director of Health Services reserves the right to reject any or all tenders without assigning any reasons.

Sd/-  
(Dr. Jose D'Sa)  
Director of Health Services



## ANNEXURE - A

### ADDITIONAL QUESTIONS FOR IMPORTED EQUIPMENT MACHINERY

1. Please indicate here prices on the following basis:
  - i. F.O.R.
  - ii. F.A.S. Port of Shipment of your Principals / Manufacturers.
  - iii. C.I.F. Indian Port.
  - iv. F.O.R. Station of dispatch. (also indicate the Station of dispatch)
2. For F.O.B./ F.A.S. quotation please indicate here separately :
  - i. Net ex-factory price.
  - ii. Net F.O.B. /F.A.S Prices exclusive of profit / commission.
3. In case you are a foreign firm quoting direct please indicate:-
  - i. The name and address of your Indian Agents/Associates/Representative for servicing in India.
  - ii. Net F.O.R. /F.A.S. price inclusive of the amount or remuneration or commission for the Indian Agents/ Associates.
  - iii. Commission/remuneration payable to the Indian agents/ associates in Rupees.
4. Please indicate the following particulars:-
  - i. The precise relationship between the foreign manufacturers/Principals and their Indian Agents/Associates.
  - ii. The mutual interest which the Manufacturer/principals and the Indian Agents/ Associates have in the business of each other.
  - iii. Any payment which the Agents/Associates receive in India or abroad from the manufacturer/principals whether commission for the contract or as a general retainer fee.
  - iv. Indian Agents Income Tax Permanent Account Number.
  - v. The foreign suppliers Income Tax Permanent Account Number.

(SIGNATURE OF TENDERER)

## ANNEXURE – B

(TENDERER SHOULD FURNISH SPECIFIC ANSWERS TO ALL THE QUESTIONS GIVEN BELOW: TENDERERS MAY PLEASE NOTE THAT IF THE ANSWERS FURNISHED ARE NOT CLEAR AND/OR EVASIVE, THE TENDER QUOTED WILL BE LIABLE TO BE IGNORED)

- 1) Tender No.----- Due Opening on -----
- 2) Offer is open for acceptance for 2 years from the placement of the first order.
- 3) whether the stores offered fully confirm to the technical particulars and specification/ drawings, specified by the purchaser in the schedule to tender, if not mention here details of deviations.
- 4) Brand of Stores offered.
- 5) Name and address of the manufacturer:
- 6) Station of manufacturer:
- 7) Please confirm that you have offered packing :
- 8) What is your permanent Income Tax Account Number & TIN No.
- 9) a) Are you registered with DGS & D for the item quoted, if so, indicate whether there is any monitory limit of registration.  
  
b) In case you are registered with NSIC under Single point Registration Scheme for the item quoted, confirm whether you have attached a photocopy of the registration certificate indicating the items for which you are registered.
1. If you are not registered either with NSIC or with DGS & D, Please state whether you are registered with Directorate of Industries of State Government Concerned.
2. Please furnish your performance statement.
3. Business name and constitution of the firm . Is the firm registered under:
  - i. The Indian Companies Act, 1956.
  - ii. The Indian Partnership Act 1932  
(please give full names and address).

iii. Any Act, if not, who are the owners  
(Please give full names and address).

4. Whether the tendering firm is /are:
- i. Manufacturer
  - ii. Manufacturer's authorized agents.
  - iii. Manufacturer's stock of the stores tendered for.

N.B: If manufacturers, agents, please upload with  
Tender the copy of the Manufacturers authorization.

5. For partnership firms state whether they are registered or not registered under Indian Partnership Act, 1932. Should the answer to this question by a partnership firm be in the affirmative, please state further:-
- a) Whether by the partnership agreement, authority to refer disputes concerning the business of the partnership to arbitration has been conferred on the partner who has signed the tender.
  - b) If the answer to (a) is in the negative, whether there is any general power of attorney executed by all the partners of the firm authorizing the partner who has signed the tender to refer dispute concerning business of the partnership to arbitration.
  - c) If the answer to either (a) or (b) is in the affirmative copy of the partnership agreement and the general power of attorney may be furnished along with the tender, where authority to refer disputes to arbitration has not been given to the partner signing the tender, the tenders must be signed by every partner of the firm.

(Signature of the Tenderer)

SCHEDULE II

*PRICE BID FORMAT FOR ACCESSORIES BOTH ESSENTIAL AND OPTIONAL (ITEMWISE)*

<b>SR. NO.</b>	<b>ITS SPECIFICATION  (ESSENTIAL &amp; OPTIONAL)</b>	<b>QUANTITY</b>	<b>UNIT PRICE</b>	<b>TOTAL</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>

SIGNATURE OF THE TENDERER

**SCHEDULE III**

**PRICE BID FORMAT FOR ESSENTIAL SPARES AND CONSUMABLES FOR 2  
YEARS (ITEM WISE)**

<b>SR. NO.</b>	<b>NAME OF THE SPARES AND CONSUMABLES ALONG WITH SPECIFICATION</b>	<b>QUANTITY</b>	<b>UNIT PRICE</b>	<b>TOTAL</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>

SIGNATURE OF THE TENDERER

**SCHEDULE IV**

**PRICE BID FORMAT FOR RECOMMENDED SPARES AND CONSUMABLES FOR  
TWO YEARS (ITEM WISE)**

<b>SR. NO.</b>	<b>NAME OF THE RECOMMENDED SPARE AND CONSUMABLES WITH ITS SPECIFICATION</b>	<b>QUANTITY</b>	<b>UNIT PRICE</b>	<b>TOTAL</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>

SIGNATURE OF THE TENDERER

**SCHEDULE V**

**INSTALLATION AND COMMISSIONING CHARGES IF ANY (ITEM WISE)**

<b>SR. NO.</b>	<b>NAME OF THE EQUIPMENT/MACHINE INSTALLATION AND COMMISSIONING CHARGES IF ANY</b>	<b>QUANTITY</b>	<b>UNIT PRICE</b>	<b>TOTAL</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>

SIGNATURE OF THE TENDERER

**SCHEDULE VI**  
**ELECTRICAL, MECHANICAL WORKS ETC.**

<b>SR.NO.</b>	<b>DESCRIPTION OF WORK</b>	<b>AMOUNT</b>
<b>1</b>	<b>2</b>	<b>3</b>

N.B. For civil works the tenderer should quote lump sum. Works other than Civil the Tenderer shall quote item wise.

SIGNATURE OF THE TENDERER



**ANNEXURE I**

**GENERAL**

<b>Sr. No.</b>	<b>Name of the item</b>	<b>Qty.</b>
1.	<p><b>Bio-medical waste automatic autoclave</b> Design Type: Rectangular Working Mode: Automatic Capacity: 300 to 350 ltrs Construction: Triple walled Inner chamber: SS 304 with full argon welding External chamber: SS 304 Finishing: Mirror finished inner and external surface Insulation: Glass wool Boiler:</p> <ul style="list-style-type: none"><li>• Made of SS 304 sheet</li><li>• Water inlet &amp; outlet valves</li><li>• Water level glass window</li><li>• Boiler safety valve</li></ul> <p>All piping: SS 304 Chamber condensate line: Fitted with steam trap and check valve Working temperature: 121° C Working pressure: 15 to 20 psi Hydraulic tested on: 40 psi Controller type:</p> <ul style="list-style-type: none"><li>• PID temperature controller</li><li>• Digital timer controller with END cycle buzzer</li></ul> <p>Sensor: PT 100 Heaters: ISI mark immersion heaters LID: SS 304 w/ Pressure locking device Radial locking system: Chrome plated MS Stand: Chrome plated MS Pressure:</p> <ul style="list-style-type: none"><li>• Automatic pressure control switch</li><li>• Analog dial type pressure gauge</li><li>• Manual pressure release valves for chamber &amp; jacket</li></ul> <p>Tray &amp; dressing drums:</p> <ul style="list-style-type: none"><li>• Perforated tray made of SS 304</li><li>• 4.2 * 12 (inch) dressing drums – 4 no.</li></ul> <p>Features:</p> <ul style="list-style-type: none"><li>• Mains MCB</li><li>• Silicon jacket</li><li>• Vaccum breaker</li><li>• Stream trap</li><li>• Pressure safety valve/ auto release of pressure through solenoid valves</li><li>• Boiler safety valve</li><li>• Low water cut-off</li></ul>	5 nos.

	<ul style="list-style-type: none"><li>• Digital pressure display</li><li>• PLC + Color HMI with data logging. USB interface, Ethernet.</li><li>• Thermal printer</li></ul> <p>Power supply: 440 volts 50 Hz, Three phase</p>	
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Sd/-  
Director of Health Services

**ANNEXURE II**

**FORENSIC**

<b>Sr. No.</b>	<b>Name of the item</b>	<b>Qty.</b>
1.	<b>Autopsy Table with Stationary Pedestal</b> Supplying, installation, commissioning, testing and training of Autopsy table with stationary pedestal having overall dimensions: 100” L x 30” W x 37” High. Should be of all stainless steel construction, with 14 gauge stainless steel table top, sink and grid plates, and 18 gauge stainless steel pedestal. All type 304 stainless steel with #4 finish. Should have down draft ventilation (down draft dual cone system), Large integral sink, Hydro aspirator with reversing flow valve, hose hanger and 8’ clear PVC tubing. Cold water control valve with vacuum break swing spout. Hot and cold water fixture with swing spout and vacuum breaker, single lever hot/ cold mixing valve, sink spray assembly with long flexible hose. Four (4) interchangeable removable grid plates of stainless steel construction with ½” recess and 3/8” diameter holes on 2” square centres. Two (2) GFCI duplex outlet with waterproof cover. Access panel should be provided.	3
2.	<b>Autopsy saw with bone dust collector</b> Supplying, commissioning, testing and training of bone dust collector of approved make conforming to the electrical specification of 120 volt (50-60 Hz/ Ph, 8.5 Amp minimum electrical cord length of 10 feet (304.8 cm) hose length upto 3.2 cm x 30.5 cm complete with a vacuum system. The electrical saw should have a rugged construction with the following features: On/ Off switch Non metallic housing 10 foot electrical cord with hospital grade plug Complete with large section blade. High-speed oscillations at 28,000 CPM. Plus additional 6 filters and 20 autopsy saw.	3
3.	<b>Head Rest</b> Supply of head rest bearing dimensions: 7 ¼” L x 4 ½ - 5 “ W, which provides six (6) positions, should be easy to clean, and made of Teflon-like stain resistant material.	3
4.	<b>Organ Scales with Readability Range of 1 gms to 4000 gms</b> Supplying, testing and training scales (approved make) having a readability range of 0.1 gms to 4000 gms. The scale should not have a linearity of more than +/- 2d. Weighing modes should be grams and ounces. Should have no calibration and auto-off features.	2
5.	<b>Digital Floor Scale</b> Supplying, testing, training and fixing floor heavy duty scales with digital read out of approved brand. Should have a large platform – 5 feet long and 4 feet wide. Should be able to accommodate large stretchers. Should have a weighing capacity of more than 2200 kgs. The digital shall give accurate displays and should support conversions from kilos, grams, ounces etc. The unit should be enclosed in a durable dust free, watertight stainless steel housing.	1
6.	<b>Bone Dissection Kit</b> Supply and testing of complete bone dissection equipments.	4

	<u>Technical specification:</u> <ul style="list-style-type: none"> <li>• 1 no. – Cartilage knife 27 cm., 5 ½ cm. blade.</li> <li>• 1 no. – Resection knife 32 cm., 7 ½ cm blade.</li> <li>• 1 no. – Brain knife 35 cm., 8 ½ cm. blade.</li> <li>• 1 no. – Organ knife 35 cm., 8 ½ cm. blade.</li> <li>• 1 no. – Autopsy knife 37 cm., 9 cm. blade.</li> <li>• 1 no. - Amputation saw. 37 cm., 9 cm. blade.</li> <li>• 1 no. – Skull cutter, 22 ½ cm., 3 cm.</li> <li>• 1 no. – Mallet, 22 ½ cm.</li> <li>• 1 no. – Rib cutting knife, 24 ½ cm.</li> <li>• 1 no. – Rib cutter, 23 cm</li> <li>• 3 no. – Chisel 20 cm.</li> <li>• 1 no. – Enterotomy Scissor Straight. 20 cm.</li> <li>• 1 no. – Dissection forceps. 15 cm.</li> <li>• 1 no. – Scalpel. 14 ½ cm., 3 ½ cm. blade.</li> <li>• 1 no. – Bisturi. 15 cm., 4 ½ cm. blade.</li> <li>• 1 no. – Mathieu needle holder. 14 cm.</li> </ul>	
7.	<b>Autopsy Instruments set consisting of the following items</b> (The tenderer has to quote for the full set. Partly quoted set will not be considered)	<b>6 nos.</b>
	(1) Scalpel with metal handle, cutting length 50 mm	2 nos.
	(2) Cartilage knife with metal handle, cutting length 55 mm	2 nos.
	(3) Cartilage knife with metal handle, cutting length 65 mm	2 nos.
	(4) Autopsy knife with metal handle, cutting length 85 mm	2 nos.
	(5) Autopsy knife with metal handle, cutting length 130 mm	2 nos.
	(6) Autopsy knife with metal handle, cutting length 195 mm	2 nos.
	(7) Brain knife with metal handle, cutting length 160 mm	2 nos.
	(8) Brain knife with metal handle, cutting length 200 mm	2 nos.
	(9) Brain knife with metal handle, cutting length 240 mm	2 nos.
	(10) Scalpel handle for scalpel blade sizes 10, 11, 12, 14, 15. Length 120 mm.	2 nos.
	(11) Scalpel handle for scalpel blade sizes 10, 11, 12, 14, 15. Length 210 mm.	2 nos.
	(12) Scalpel handle for scalpel blade sizes 18, 19, 20, 21, 22, 23, 24, 25, 36. Length 135 mm., with cm graduation	2 nos.
	(13) Scalpel handle for scalpel blade sizes 18, 19, 20, 21, 22, 23, 24, 25, 36. Length 210 mm.	2 nos.
	(14) Scalpel blades of each above described sizes at Sr. Nos. 10 - 13.	1 gross per size
	(15) Scalpel blade remover	2 nos.
	(16) Dissecting forceps, standard, length 180 mm.	2 nos.
	(17) Dissecting forceps, 1 x 2 teeth, length 160 mm.	2 nos.
	(18) Dissecting forceps, 2 x 3 teeth, length 160 mm.	2 nos.
	(19) Dissecting forceps, 3 x 4 teeth, length 160 mm.	2 nos.
	(20) Surgical scissors, length 150 mm.	2 nos.
	(21) Incision scissors, length 145 mm	2 nos.
	(22) Dissecting scissors, length 145 mm.	2 nos.

(23) Mayo – Noble muscle scissors, length 170 mm.	2 nos.
(24) Bone shears, length 225 mm.	2 nos.
(25) Bowel scissors, length 210 mm.	2 nos.
(26) Rib shears, length 230 mm.	2 nos.
(27) Langenbeck bone holding forceps, length 215 mm.	2 nos.
(28) Skull breaker, metal, 140 mm.	2 nos.
(29) Rachiotome (spine wrench), 220 mm.	2 nos.
(30) Osteotome, 140/ 10 mm.	2 nos.
(31) Osteotome, 205/ 20 mm.	2 nos.
(32) Chisel, 245 mm.	2 nos.
(33) Retractors, double, 65 mm.	2 nos.
(34) Self rotating, retractors	2 nos.
(35) Ombredanne metal mallet, 240 mm.	4 nos.
(36) Bergman metal mallet, 235 mm.	4 nos.
(37) Probe, 145/ 1.5 mm.	2 nos.
(38) Probe, 160/ 1.5 mm.	2 nos.
(39) Probe, 200/ 1.5 mm.	2 nos.
(40) Directors, 160 mm.	2 nos.
(41) Post mortem needle, 145 mm.	1 gross
(42) Post mortem needle, 115 mm.	1 gross
(43) Post mortem needle, 85 mm.	1 gross
(44) Bow saw, 350 mm.	2 nos.
(45) Bow saw, 420 mm.	2 nos.
(46) Folding ruler, metal, 300 mm.	2 nos.
(47) Steel tape measure, 1500 mm.	2 nos.
(48) Blow pipes, double, straight, 235 mm.	2 nos.
(49) Measuring glass, 100 cm.	6 nos.
(50) Blood scoop, 95 mm.	6 nos.
(51) Kidney bowl 170 x 37 mm.	6 nos.
(52) Kidney bowl 275 x 45 mm.	6 nos.
(53) Stainless steel bowl, D = 245 x 95 mm., 3 litre volume	3 nos.
(54) Stainless steel bowl, D = 300 x 115 mm., 6 litre volume	3 nos.
(55) Stainless steel measuring cup, graduated, H = 200 mm	2 litre volume
(56) Oscillatory autopsy saw with guard and bone dust collector	2 nos.

Sd/-  
Director of Health Services