

Tender

For

Complete Speech and Voice Lab Including  
Electroglottography With Nasometer And Phonatory  
Aerodynamic System for the Department of ENT

At

All India Institute of Medical Sciences, Jodhpur

NIT Issue Date	: 15 <sup>th</sup> December, 2020
NIT No.	: Admn/Tender/28-2/2020-AIIMS.JDH
Pre-Bid Meeting	: 28 <sup>th</sup> December, 2020 at 05:00 PM
Last Date of Submission	: 28 <sup>th</sup> January, 2021 at 03:00 PM
Bid opening	: 29 <sup>th</sup> January, 2021 at 03:15 P.M

Tender documents may be downloaded from institute's web site [www.aiimsjodhpur.edu.in](http://www.aiimsjodhpur.edu.in) (for reference only) and CPPP site <https://eprocure.gov.in/eprocure/app>



**All India Institute of Medical Sciences, Jodhpur**

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All India Institute of Medical Sciences (AIIMS), Jodhpur, Rajasthan, an apex healthcare institute established by an Act of Parliament of India under aegis of Ministry of Health & Family Welfare, Government of India, invites **Online bids in two bid system** for tenders for supply & installation of the Complete Speech And Voice Lab Including Electroglossography With Nasometer and Phonatory Aerodynamic System at the institute. You are requested to quote your best offer along with the complete details of specifications, terms & conditions.

### Chapter-I

S.No	Item Description	Qty
1	Complete Speech And Voice Lab Including Electroglossography With Nasometer and Phonatory Aerodynamic System	01

### **Instructions:**

- Bids shall be submitted online only at CPPP website: <https://eprocure.gov.in/eprocure/app>.**
- The complete bidding process in online. Bidders should be possession of valid digital Signature Certificate (DSC) of class II or III for online submission of bids. Prior to bidding DSC need to be registered on the website mentioned above. For any assistance for e-bidding process, if required, bidder may contact to the helpdesk at 0291-2740741.
- Tenderer/Contractor/Bidders are advised to follow the instructions provided in the ‘Instructions to the Contractors/Tenderer/Bidders for the e-submission of the bids online through the Central Public Procurement Portal for e Procurement at <https://eprocure.gov.in/eprocure/app>’.**
- Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- Submission of Tender:**  
The tender shall be submitted online in two part, viz., technical bid and financial bid.  
**The offers submitted by Telegram/Fax/email shall not be considered. No correspondence will be entertained in this matter.**
  - Technical Bid**  
The following documents are to be furnished by the Contractor along with **Technical Bid** as per the tender document:
    - Signed and scanned copy of appropriate value of valid registration certificate (if any), experience certificate as per the tender notice, PAN, GST registration certificate and Tender Acceptance Letter (Annexure V).
    - Signed and Scanned Copy of Make and model of all systems, sub systems and additional items should be mentioned in the technical bid and complete technical details should be provided in the form of Brochures and write-ups.
  - Financial Bid –**  
**Bidder must submit financial bid in .xls (Excel workbook 97-2003 workbook) only**

## **Terms & Conditions:**

- 1. Validity:** The quoted rates must be valid for a period for 180 days from the date of closing of the tender. The overall offer for the assignment 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.
- 2. "PRE –BID Meeting"** with the intending bidders shall be held on **28<sup>th</sup> December, 2020 from 05:00 P.M.** at AIIMS, Jodhpur. In view of COVID on request of intending bidder online meeting also be organized. Intending bidder will be allowed to seek clarification on specification, Conditions of Contract, etc. in writing to AIIMS, Jodhpur, within 48 hours after the pre-bid meeting.
- 3.** In case the tenderer withdraws, modifies or change his offer during the validity period, bid is liable to be rejected. The tenderer should also be ready to extend the validity, if required, without changing any terms, conditions etc. of their original tender.
- 4. Purchase Preference to Local Suppliers**  
In pursuance of Government of India Order No. P-45021/2/2017-B.E.-II dated 16<sup>th</sup> September 2020 (as amended from time to time) and F.No. Z.28018/67/2017-EPW dated 12<sup>th</sup> June 2018 purchase preference shall be given to local suppliers in all procurements undertaken in the manner specified hereunder and the procurement shall be made as per terms and conditions contained in the said order.
- 5. Minimum local content:** The minimum local content shall as per Government of India Order No. P-45021/2/2017-B.E.-II dated 16<sup>th</sup> September 2020 (as amended from time to time) and F.No. Z.28018/67/2017-EPW dated 12/06/2018, till the Nodal Ministry prescribes a higher or lower percentage.
- 6. Margin of Purchase Preference:** The margin of purchase preference shall be 20%. The Local supplier whose quoted price falls in the margin of purchase preference desirous of claiming benefit of the Order No. P-45021/2/2017-B.E.-II dated 16<sup>th</sup> September 2020 shall submit an undertaking within 7 days of opening of financial bid, that he would be ready to supply the product at L1 price. In case of non-receipt of the same, he would not be given purchase preference.
- 7.** The bidders are required to submit the following annexure in compliance of public procumbent (Preference to Make in India) order, 2017:
  - i) Affidavit of self-certification regarding local content (to be provided on Rs. 100/- stamp paper). (**Annexure-III**).
- 8. All other terms & conditions will be as per the Department of Industrial Policy and Promotion (DIPP) order No. P-45021/2/2017-B.E.-II dated 16<sup>th</sup> September 2020 (as amended from time to time).**
- 9. Delivery and Installation:**
  - i) For goods supplied from India:**  
All the goods ordered shall be delivered and Installed at AIIMS, Jodhpur within **60 days** from the date of issue of supply order.
  - ii) For goods imported directly from abroad:**  
All the goods ordered shall be delivered and Installed at AIIMS, Jodhpur within **90 days** from the date of opening of Letter of Credit for shipment.

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 0.5% per week or a part thereof of the total order value shall be levied

subject to maximum of 10% of the total order value. The successful tenderer will also provide required training for supplied items at AIIMS Jodhpur. The goods should be manufactured after adoption of latest technology.

If at any time during the currency of the contract, the supplier encounters conditions hindering timely supply of the goods and performance of services, the supplier shall promptly inform the AIIMS, Jodhpur for extension of the delivery schedule accordingly. On receiving the supplier's communication, AIIMS, Jodhpur shall examine the situation as soon as possible and, at its discretion, may agree to extend the delivery schedule, with or without liquidated damages for completion of supplier's contractual obligations by issuing an amendment to the contract.

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.

- 8. Signing the Contract:** - The successful bidder shall be required to execute the Contract Agreement accepting all terms and conditions stipulated herein on a non-judicial stamp paper of Rs. 500/- (Rs. Five Hundred only) along with performance security within fifteen days of the issue of the Letter of notification of award.
- 9. Performance Security:** As a guarantee towards due performance and compliance of the contract work (Including of Taxes), the successful bidder (contractor) will deposit an amount equal to **3%** of order value and should be kept valid for a period of 60 day beyond completion of all the contractual obligation, including CMC period towards security deposit by way of demand draft/ bank Guarantee in favour of "All India Institute of Medical Sciences, Jodhpur" payable at Jodhpur drawn on any Nationalized Bank/Scheduled Bank and payable at Jodhpur within fifteen days of the issue of the Letter of notification of award along with non-judicial stamp paper of Rs. 500/- (Contract agreement).
- 10. Incidental Services:** The supplier shall be required to perform the following services:-
  - a. Installation & Commissioning, Supervision and Demonstration of the goods.
  - b. Providing required jigs and tools for assembly, minor civil works required for the completion of the installation.
  - c. On Site Training to Doctors/ Technicians/ Staff is to be provided by Supplier for operation and maintenance of the equipment for a period of 30 working days after successful installation of the machine, as per direction of user department.
  - d. Supplying required number of operation & maintenance manual for the goods.
  - e. To provide non-locked open software and standard interface inter-operability conditions for networked equipment's in hospital management information system, wherever applicable.
- 11. Accessories & Consumables:** The separate price list of all accessories and consumables, if any, must be attached/ enclosed along with the Financial Bid.
- 12. After Sales Service:** After sales service centre should be available on 24 (hrs.) X 7 (days) X 365 (days) basis. Complaints should be attended properly, maximum within 24 hrs to ensure an uptime of minimum 95%, wherever applicable, failing which the necessary penalty measures shall be enforced.
- 13. Inspection:**
  - a. AIIMS, Jodhpur shall have the right to inspect and/or to test the goods to confirm their conformity to the NIT Specifications at no extra cost to the Purchaser.
  - b. AIIMS, Jodhpur right to inspect, test and, where necessary, reject the Goods after the goods arrival at the final destination shall in no way be limited or waived by reason of the Goods having previously been inspected, tested and passed by AIIMS, Jodhpur prior to the goods shipment.
  - c. The Director, AIIMS Jodhpur shall be the final authority to reject full or any part of the supply which is not confirming to the specification and other terms and conditions.

- d. No payment shall be made for rejected Stores. Rejected items must be removed by the Bidders within two weeks of the date of rejection at their own cost and replaced immediately. In case these are not removed, these will be auctioned at the risk and responsibility of the suppliers without any further notice.

**14. Documents:**

- a. **All pages of the Tender should be numbered and indexed.**
- b. The bidder shall provide in its tender the required as well as the relevant documents like technical data, literature, drawings etc. to establish that the goods and services offered in the tender fully confirm to the goods and services specified by the purchaser in the tender documents. For this purpose, the bidder shall also provide a clause-by-clause commentary on the technical specifications and other technical details incorporated by the purchaser in the tender documents to establish technical responsiveness of the goods and services offered in its tender duly indicating relevant page numbers in the product literature.
- c. The bidder shall provide a list of major Government and Private Institutions where its relevant bid item has been supplied during last one year.

- 15. Manufacturer Authorisation:** The bidder (if not original equipment manufacturer must submit Original Equipment Manufacturer authorization certificate that the tenderer is authorized for selling and maintain the equipment quoted for. Performa attached at **Annexure- IV**.

- 16.** The bidders are required to submit user certificate for the relevant equipment on the letter head of the institution (Government/ Private).

- 17.** The successful bidder will be required to submit order copies of the supply of the equipment in Government institutions in last 12 months for rate reasonability purpose.

- 18. Insurance:** - The supplier shall make arrangements for insuring the goods against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery. If the equipment's is not commissioned and handed over to AIIMS, Jodhpur within specified period, the insurance will have to be extended by the supplier at their cost till the successful installation, testing, commissioning and handing over of the goods to the AIIMS, Jodhpur.

**19. Tender Currencies:**

- a. The bidder supplying indigenous goods or already imported goods shall quote only in Indian Rupees. Further, imported goods to be imported and supplied by the bidder are also required to be quoted in Indian Rupees.
- b. For imported goods if supplied directly from abroad, prices shall be quoted in any freely convertible currency say US Dollar, Euro, GBP or Yen. As regards price(s) for allied services, if any, required with the goods, the same shall be quoted in Indian Rupees only, if such services are to be performed /undertaken in India.
- c. Tenders, where prices are quoted in any other way shall be treated as non -responsive and rejected.

- 20. Tender Prices:** While filling up the columns of the Financial Bid, the following aspects should be noted for compliance:

**For domestic goods or goods of foreign origin located within India, the prices in the corresponding Financial Bid shall be entered separately in the following manner:**

- a. The price of the goods, quoted ex-factory/ ex-showroom/ ex-warehouse/ off-the-shelf, as applicable, including all taxes and duties like GST, Custom Duty etc. already paid or payable on the components and raw material used in the manufacture or assembly of the goods quoted ex-factory etc. or on the previously imported goods of foreign origin quoted ex-showroom etc.;
- b. Any GST or other taxes, which will be payable on the goods in India if the contract is awarded;
- c. Charges towards Packing & Forwarding, Inland Transportation, Insurance, Loading/Unloading and other local costs incidental to delivery of the goods to their final destination as specified in the List of Requirements and Financial Bid;



- d. The price of Incidental Services, as mentioned in List of Requirements and Financial Bid;
- e. The prices of Turnkey (if any), as mentioned in List of Requirements, Technical Specification and Financial Bid; and
- f. The price of annual CMC, as mentioned in List of Requirements, Technical Specification and Financial Bid.

**For goods offered from abroad, the prices in the corresponding Financial Bid shall be entered separately in the following manner:**

- a. The price of goods quoted FOB port of shipment, as indicated in the List of Requirements and Financial Bid;
- b. The price of goods quoted CIF port of entry in India as indicated in the List of Requirements and Financial Bid;
- c. The price of goods quoted for delivery at AIIMS, Jodhpur as indicated in the List of Requirements, Financial Bid and Consignee List;
- d. Wherever applicable, the amount of custom duty with CDEC applicable on CIF value on the goods to be imported;
- e. The charges for Loading/Unloading, Inland transportation, Insurance and other local costs, Incidental cost to delivery of the goods from the port of entry in India to AIIMS, Jodhpur, as specified in the List of Requirements and Financial Bid;
- f. The charges for Incidental Services, as in the List of Requirements and Financial Bid;
- g. The prices of Turnkey (if any), as mentioned in List of Requirements, Technical Specification and Financial Bid; and
- h. The price of annual CMC, as mentioned in List of Requirements, Technical Specification and Financial Bid.

**Additional information and instruction on Duties and Taxes:**

The prices quoted are to be inclusive of GST/ taxes. However, any change in GST upward/downward as a result of any statutory variation in GST taking place within contract terms shall be allowed to the extent of actual quantum of GST. In case of downward revision in GST, the actual quantum of reduction of GST shall be reimbursed to the purchaser by the supplier. All such adjustments shall include all reliefs, exemptions, rebates, concession etc. if any obtained by the supplier.

**Customs Duty:** In respect of imported goods offered from abroad, the bidder shall specify the rate as well as the total amount of customs duty payable. The bidder shall also indicate the corresponding Indian Customs Tariff Number/ HSN code applicable for the goods.

- a. For transportation of imported goods offered from abroad, relevant instructions as incorporated shall be followed.
- b. For insurance of goods to be supplied, relevant instructions as provided shall be followed.
- c. Unless otherwise specifically indicated in this NIT document, the terms FCA, FOB, FAS, CIF, CIP etc. for imported goods offered from abroad, shall be governed by the rules & regulations prescribed in the current edition of INCOTERMS, published by the International Chamber of Commerce, Paris.
- d. The need for indication of all such price components by the bidders, as required in this clause is for the purpose of comparison of the tenders by the purchaser and will no way restrict the AIIMS, Jodhpur right to award the contract on the selected bidder on any of the terms offered.
- e. ***Custom Duty as quoted in Financial Bid will be taken for comparison purpose. However actual reimbursement of Custom Duty will be lower of Custom duty/ taxes quoted or amount mentioned in Bill of Entry.***

21. **Custom Clearance:** For the Goods to be imported and supplied, the Institute will provide Custom Duty Exemption Certificate (CDEC) to successful bidder for availing concessional rate of duty as per prevailing Custom Tariff. In case, the bidder requires CDEC certificate, then the same should be specifically mentioned in the bid. The supplier is solely responsible for getting the material clearance from customs. Institute will provide all custom documents for custom clearance on the demand of supplier. Transportation of goods up to AIIMS, Jodhpur and its successful installation and

commissioning is also the responsibility of the supplier. All charges/ expenses incurred in this process will be borne by the supplier. NO DEMURRAGE / WHARFAGE CHARGES WILL BE PAYABLE BY THE INSTITUTE UNDER ANY CIRCUMSTANCES. NO ADVANCE PAYMENT WILL BE PAYABLE FOR CUSTOM CLEARANCE/ FREIGHT/INSURANCE ETC.

**22. Indian Agent:-**If a foreign bidder has engaged an agent in India in connection with its bid, the foreign bidder, in addition to indicating Indian agent's commission, if any, shall also furnish the following information:

- a. The complete name and address of the Indian Agent and its Permanent Account Number as allotted by the Indian Income Tax authority.
- b. The details of the services to be rendered by the agent for the subject requirement.
- c. Details of Service outlets in India, nearest to the AIIMS, Jodhpur to render services during Warranty and CMC period.

**23. Firm Price**

- a. Unless otherwise specified in the NIT, prices quoted by the bidder shall remain firm and fixed during the currency of the contract and not subject to variation on any account.
- b. However, as regards taxes and duties, if any, chargeable on the goods and payable, the conditions stipulated will apply.

**24. Conversion of tender currencies to Indian Rupees:** - In case the bid document permits the bidders to quote their prices in different currencies, all such quoted prices of the responsive bidders will be converted to a single currency viz., Indian Rupees for the purpose of equitable comparison and evaluation, as per the closing exchange rates established by the Reserve Bank of India for similar transactions, as on the date of '**Last Date of Submission of Tender**'.

**25. Payment Terms:**

i) **Payment for goods supplied from India:**

100% payment of the total order value shall be released after the successful installation/ commissioning of the ordered goods against the submission of the inspection report.

ii) **Payment for Imported goods:**

For imported goods payment shall be made in the following manner:

- a) **On shipment:** 75 % payment of the contract price shall be paid 60 days after presentation of shipping documents {goods shipped shall be paid through irrevocable, non-transferable Letter of Credit (LC) opened in favour of the supplier in a bank in his country} and upon the submission of the following documents:
  - i. Four copies of Supplier's invoice showing contract number, goods description, quantity, unit price and total amount;
  - ii. Original and four copies of the clean, on-board Bill of Lading/ Airway bill, marked freight prepaid and four copies of non-negotiable Bill of Lading/Airway bill.
  - iii. Insurance Certificate;
  - iv. Certificate of origin by the chamber of commerce of the concerned country;
  - v. Certificate of country of origin;
  - vi. Manufacturer's / Supplier's warranty certificate;
  - vii. Manufacturer's own factory inspection report.
- b) **On Acceptance:** 25 % payment would be made after satisfactory installation & commissioning on issuance of Inspection certificate by the AIIMS, Jodhpur.

*Note:-The supplier shall not claim any interest or any other payment under the contract.*

**26. Guarantee / Warrantee Period:** The Tenderers must quote for **05 years** comprehensive warranty (Including all Spares, 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 summarily rejected. Also the bidders are requested to submit their quote (Rates) for subsequent **05 years**

Comprehensive Maintenance Contract (CMC) (Including All Spares, Accessories and Labour). Failure to comply this condition will entail the rejection of the bids. The price comparison shall be taking into account on basic price and post warranty CMC.

- 27. Uptime guarantee:** The firm should provide uptime guarantee of 95%.
- 28. Downtime penalty Clause**
- 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 vendor must undertake to supply all spares for optimal upkeep of the equipment for at least FIVE YEARS after handling over the unit to the Institute.
  - The principals or their authorized service providers are required to submit a certificate that they have satisfactory service arrangements and fully trained staff available to support the uptime guarantee.
- 29. Arbitration:** If any difference arises concerning this agreement, its interpretation on payment to the made there-under, the same shall be settled out by mutual consultation and negotiation. If attempts for conciliation do not yield any result within a period of 30 days, either of the parties may make a request to the other party for submission of the dispute for decision by an Arbitral Tribunal containing Sole Arbitrator to be appointed by the Director, AIIMS, Jodhpur. Such requests shall be accompanied with a panel of names of three persons to act as the sole arbitrator. In case of such arbitrator refusing, unwilling or becoming incapable to act or his mandate having been terminated under law, another arbitrator shall be appointed in the same manner from among the panel of three persons to be submitted by the claimant. The provision of Arbitration and Conciliation Act, 1996 and the rule framed there under and in force shall be applicable to such proceedings.
- 30. 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 AIIMS, Jodhpur, which will be at liberty to refuse if thinks fit. The tender is not transferable. Only one tender shall be submitted by one tenderer.
- 31. Breach of Terms and Conditions:** In case of breach of any terms and conditions as mentioned above, the Competent Authority, will have the right to cancel the work order/ job without assigning any reason thereof and nothing will be payable by AIIMS, Jodhpur in that event the security deposit shall also stands forfeited.
- 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 company 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 AIIMS, Jodhpur 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.** The quantity of item given in the tender is tentative, which may be increased or decreased as per the institute's requirement.



35. Signed & stamped compliance sheet of the technical specification of the goods with technical printed literature must be enclosed with the bid.
36. After due evaluation of the bid(s) Institute will award the contract to the lowest evaluated responsive tenderer.
37. Conditional bid will be treated as unresponsive and it may be rejected.
38. **Demonstration:** - AIIMS Jodhpur reserves the right to ask the tenderers for arranging demonstration of their equipment for which rates have been quoted, to the concerned committee, if required.
39. The Institute 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).
40. **Applicable Law:**
  - The contract shall be governed by the laws and procedures established by Govt. of India, within the framework of applicable legislation and enactment made from time to time concerning such Commercial dealings / processing.
  - Any disputes are subject to exclusive jurisdiction of Competent Court and Forum in Jodhpur, Rajasthan, India only.
  - The Arbitration shall be held in accordance with the provisions of the Arbitration and Conciliation Act, 1996 and the venue of arbitration shall be at Jodhpur. The decision of the Arbitrator shall be final and binding on both the parties.
  - Force Majeure: Any delay due to Force Majeure will not be attributable to the supplier.

**Deputy Director (Admin)**  
**AIIMS, Jodhpur**

**Annexure-I**

S.No	Item	Technical Specification	Qty
01.	Complete Speech and Voice Lab Including Electroglottography With Nasometer And Phonatory Aerodynamic System	<p><b><u>OBJECTIVE</u></b>  <b>Supply and Installation of complete speech and voice lab alongwith Electroglottography and Nasometer with additional devices such as Phonatory Aerodynamic system as per the modern concepts and as per the specifications given below. The bidder shall be responsible for the complete supply and installation, which shall include but not be limited to the following specifications:</b></p> <p><b>A. COMPLETE SPEECH AND VOICE LAB WITH SPEECH SOFTWARE</b></p> <p>It should be integrated with Hardware and Software package system. With following specs:</p> <ul style="list-style-type: none"> <li>a. It should have Analog Inputs: 2 XLR/phone-type and 2 phono channels</li> <li>b. It should have Coupling AC or DC (channels 3 and 4 switchable)</li> <li>c. It should have Sampling Rate 8,000 – 200,000 Hz</li> <li>d. It should have Dynamic Range &gt;90 dB</li> <li>e. It should have Frequency Response Channels 1 &amp; 2: 20 to 88 kHz</li> <li>f. It should have Channels 3 &amp; 4: AC mode: 18 to 88 kHz</li> <li>g. It should have Channels 3 &amp; 4: DC mode: low pass roll off at 88 kHz</li> <li>h. It should have Digital Interface AES/EBU or SPDIF format; transformer-coupled- Software Interface ASIO and MME via USB-C or Thunderbolt 3</li> <li>i. Computer Interface Half-size PCI card: 5” H x 7.4” W x 0.75” D via USB-C or Thunderbolt 3</li> <li>j. Analog Outputs 4 channels: line and speaker, headphone</li> </ul> <p>It should consist of-</p> <ul style="list-style-type: none"> <li>a. Data Acquisition Card &amp; Audio device (interface card) via USB-C or Thunderbolt 3</li> <li>b. Speaker</li> <li>c. Microphone</li> <li>d. Headphones</li> <li>e. Connection cables</li> <li>f. Adapter for EGG input along with EGG Hardware</li> <li>g. Computerised Speech Lab Main Program software</li> <li>h. Manual and instructions</li> </ul> <p>It should consist of following Software’s for Clinical Assessment</p> <ul style="list-style-type: none"> <li>a. Analysis of Dysphonia in Speech and Voice</li> <li>b. Multi Dimensional Voice Program</li> <li>c. Motor Speech Profile</li> <li>d. Voice Range Profile</li> </ul> <p>For Real Time and Therapy Applications, the following should be included</p> <ul style="list-style-type: none"> <li>a. Real Time Pitch</li> <li>b. Real Time spectrogram</li> <li>c. Real time EGG Analysis</li> <li>d. Auditory Feedback Tools</li> <li>e. Voice Games</li> </ul> <p><b>B. NASOMETER</b></p>	01

		<p>The Nasometer should be a PC-compatible hardware and software system that is used to assess and treat patients with cleft palate, motor speech disorders, hearing impairment, and functional nasality problems.</p> <ol style="list-style-type: none"> <li>1. Weight: approx 1 Kg with DC Input Voltage/ Current: +15VDC at 200mA Nominal with protection Against Electrical Shock: Class I equipment which requires a grounded outlet</li> <li>2. <u>Power Supply</u> <ol style="list-style-type: none"> <li>a. Universal Input Type: 90- 264VAC Input, &lt; 0.5° RMS Input Current at 90VAC</li> <li>b. Input, 47</li> <li>c. 63Hz, Medical Grade, IEC Class I, 6 Foot DC Power Cord</li> <li>d. DC Output: +15V DC at 1.2° (Max), 18W</li> </ol> </li> <li>3. <u>Headset/ Cable Assembly</u> <ol style="list-style-type: none"> <li>a. Custom-designed headset with built in dual microphones and 6.5-feet (2-meter) cable assembly with a ¼” phone plug.</li> <li>b. General Microphone Specifications <ol style="list-style-type: none"> <li>(i) Frequency Response: 50 Hz – 15,000 Hz</li> <li>(ii) Polar Pattern: Unidirectional</li> <li>(iii) Impedance: 200 ohms</li> <li>(iv) Output Level (Open Circuit Voltage): -67.0 dB/Pa (0.45m)</li> <li>(v) Hum Sensitivity: 38.4 dB equivalent SPL in a milloersted</li> </ol> </li> </ol> </li> <li>4. <u>USB Cable</u> <ol style="list-style-type: none"> <li>a. USB-C compliant, 2 meters</li> <li>b. Environmental Specifications <ol style="list-style-type: none"> <li>(i) Temperature: +10 °C to +40 °C</li> <li>(ii) Relative Humidity: 30% to 90% (non-condensing)</li> <li>(iii) Atmospheric Pressure: 700 mb to 1060 mb</li> </ol> </li> </ol> </li> </ol> <p><b>C. PHONATORY AERODYNAMIC SYSTEM</b></p> <p>A complete PAS system must be a PC/ Mac compatible hardware and software system designed to capture and display phonatory aerodynamic data (pitch, sound pressure, airflow, and air pressure), then perform a number of measurements and calculations on the acquired data in order to obtain analysis results for use in the speech clinic.</p> <p><u>PAS Specifications</u></p> <p><u>Airflow</u> Full-Scale: 5 L/sec (maximum range of flow-head) Accuracy*: 0.0 to 0.5 L/sec +/- 5 mL/sec 0.5 to 1.0 L/sec +/- 10 mL/sec 1.0 to 1.5 L/sec +/- 25 mL/sec 1.5 to 2.0 L/sec +/- 65 mL/sec Bandwidth: DC to 75 Hz Noise (rms) &lt; 4 mL/sec Overload (max.) +/-24 L/sec *Based on averaged airflow. Does not apply to instantaneous measurements.</p> <p><u>Intra-Oral Pressure</u> Full-Scale: 100 cm H2O Accuracy*: 0 to 50 cm H2O +/- 5 mm H2O</p>	
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		<p>50 to 100 cm H<sub>2</sub>O +/- 10 mm H<sub>2</sub>O                      Bandwidth: DC - 75 Hz                      Noise (rms) &lt; 1 mm H<sub>2</sub>O                      Overload (max.) 5 p.s.i.                      *Based on averaged pressure. Does not apply to instantaneous measurements.                      192</p> <p><u>Microphone Channel</u>                      Type: Condenser                      Low Gain Full-Scale (Typical): 120 dB SPL (@ microphone input)                      Accuracy (@ 104 dB SPL): 2 dB SPL                      Freq. Response (-3 dB): 50 Hz to 10 kHz @ 22.05 kHz Sample Rate                      Equivalent Noise Level: &lt; 40 dB SPL (A-weighted, without microphone)                      Calibration: Microphone calibrated at the factory                      Gain Selection: 27 dB</p> <p><u>Auxiliary Channel</u>                      Full Scale (Typical): -12 dBV                      Freq. Response (-3 dB): 5 Hz to 10 kHz @ 22.05 kHz Sample Rate</p> <p><u>Enclosure Type</u>                      Custom enclosure: ABS, V0 Rated, EMI Shielded                      Dimensions: 6.5" (L) x 9" (W) x 6" (H)</p> <p><u>Cable</u></p> <ul style="list-style-type: none"> <li>• 9 ft. long</li> <li>• Anchor/strain relief and DB-25 over-molds.</li> <li>• 2.5 mm DC jack</li> <li>• 14-conductor cable, 28 AWG singles (14):</li> <li>• PVC jacket</li> </ul> <p><u>Data Acquisition Card</u>                      Type: PCI Card with USB-C/Thunderbolt 3 access, LynxTWO-A, Modified                      Analog I/O:                      Type: Four inputs / four outputs, electronically balanced or unbalanced                      Level: +4dBu nominal / +20dBu max. or -10dBV nominal / +6dBV max., software selectable in channel pairs                      A/D and D/A convertor Type: 24-bit, multi-level, delta-sigma</p> <p>Sample Rates: 8 kHz to 200 kHz, including all standard rates with variable adjustment</p> <table style="margin-left: 40px;"> <tr> <td>8 kHz &lt; F<sub>s</sub> ≤ 12.5 kHz:</td> <td>Increments of 62.5 Hz</td> </tr> <tr> <td>12.5 kHz &lt; F<sub>s</sub> ≤ 25 kHz:</td> <td>Increments of 125 Hz</td> </tr> <tr> <td>25 kHz &lt; F<sub>s</sub> ≤ 50 kHz:</td> <td>Increments of 250 Hz</td> </tr> <tr> <td>50 kHz &lt; F<sub>s</sub> ≤ 100 kHz:</td> <td>Increments of 500 Hz</td> </tr> <tr> <td>&lt;100 kHz:</td> <td>Increments of 1000 Hz</td> </tr> </table> <p>Analog Input Performance: (measured in 24-bit mode with card installed in computer)</p> <table style="margin-left: 40px;"> <tr> <td>Frequency Response:</td> <td>20 - 20 kHz, ± 0.05 dB at 44.1 kHz sample rate</td> </tr> <tr> <td>Dynamic Range;</td> <td>117 dB, A-wtd.</td> </tr> <tr> <td>Signal-to-Noise:</td> <td>116 dB, A-wtd.</td> </tr> </table>	8 kHz < F <sub>s</sub> ≤ 12.5 kHz:	Increments of 62.5 Hz	12.5 kHz < F <sub>s</sub> ≤ 25 kHz:	Increments of 125 Hz	25 kHz < F <sub>s</sub> ≤ 50 kHz:	Increments of 250 Hz	50 kHz < F <sub>s</sub> ≤ 100 kHz:	Increments of 500 Hz	<100 kHz:	Increments of 1000 Hz	Frequency Response:	20 - 20 kHz, ± 0.05 dB at 44.1 kHz sample rate	Dynamic Range;	117 dB, A-wtd.	Signal-to-Noise:	116 dB, A-wtd.	
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Signal-to-Noise:	116 dB, A-wtd.																		

		<p>Channel Crosstalk: &lt;-120 dB, 1 kHz signal @ -1dBFS THD+N: -104 dB (0.0006%) @ -8 dBFS, 1kHz signal 22Hz-22kHz BW</p> <p>Analog Output Performance: (measured in 24-bit mode with card installed in computer) Frequency Response: 20 - 20 kHz, ± 0.05 dB at 44.1 kHz sample rate</p> <p>Dynamic Range: 117 dB, A-wtd. Signal-to-Noise: 117 dB, A-wtd. Channel Crosstalk: &lt;-120 dB, 1 kHz signal @ -1dBFS THD+N: -104 dB (0.0006%) @ -8 dBFS, 1kHz signal 22Hz-22kHz BW</p> <p>Windows Drivers for latest Windows Professional OS. Mac OS drivers for latest OSX : MME, ASIO 2.0, and DirectSound PCI Bus: Version 2.2 compliant with connectivity to USB-C/Thunderbolt 3 Size: 5.0” H X 7.4” W X 0.75” D (half-size PCI card with USB-C/Thunderbolt 3) Certifications: CE and FCC Class B Input Power: 100-240 VAC, 50-60 Hz, 0.5A</p> <p><b><u>Power Supply</u></b> Type: Universal AC Input, Medical Grade Model: MW117RA1203F01 Manufacturer: Ault Output: +12V DC, .85A Expected Usage: 1.8 W (max.) Weight: 5.50 ounces</p> <p><b><u>Environmental</u></b> Operating Temperature: +10 °C to +40 °C Relative Humidity: 30% to 90% (non-condensing) Atmospheric Pressure: 700 mb to 1060 mb</p> <p><b><u>Storage/Transportation:</u></b> Temperature: +10 °C to +40 °C Relative Humidity: 30% to 90% (non-condensing) Atmospheric Pressure: 700 mb to 1060 mb</p> <p>COMPUTER specifications- a. (Two Units):</p> <ul style="list-style-type: none"> <li>• Processor: Intel Core <a href="#">i7-2600@3.40GH</a></li> <li>• Memory: 16GB DDR3 SD RAM</li> <li>• Graphics: Intel Integrated HD Graphics 2000</li> <li>• Hard Disk: 1 TB SSD x 2 (in RAID 1 mode)</li> <li>• Features: Wireless networking &amp; Ethernet Provision</li> <li>• Ports: USB-3 Ports and USB 2 ports</li> <li>• One full height, half size PCI SLOT (5’’HX7.4’’WX0.75’’D)</li> <li>• Monitor: 22’’ LED</li> <li>• OS: Microsoft Window 10</li> <li>• Laser Multifunction Printer (Three Units):</li> <li>• UPS 1 KVA compatible for the whole system (Two Units):</li> </ul>	
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- b. One unit of design, editing and storage system which should consist of an off-line licensed workstation with
- 3.2 GHz Intel x core processor
  - Turbo boost upto 4.2GHz
  - 32 GB, 2666 MHz ECC memory
  - 1 TB SSD storage in addition to 5 TB external hard drive for data storage and should be compatible with system provided.
  - Radeon Pro Vega 56 with 8 GB HBMZ Memory
  - 10 GB Ethernet access
  - Four Thunderbolt 3 ports
  - Wi-Fi Connectivity
  - Latest Mac OS and latest Windows Professional OS loaded, licensed software for analyzing and quantification of 2D and 3D datasets.
  - Licensed Microsoft Office Professional software for both Windows and Mac OS X Preloaded.
  - CD/DVD writer with image management software.
  - High end colour laser printer with auto duplexing and colour print glaze paper- 500 sheets.
  - One set of color laser printer (compatible) cartridges, in addition to that supplied with printer

#### **D. ELECTROGLOTTOGRAPH**

The Electroglottograph should be a PC & Mac-compatible hardware and software system that is to be used to do phonatory assessment, give visual feedback to patients and perform documentation in Speech and Voice analysis.

##### Electroglottograph specifications

Output Voltage Range: 7.5V P-P maximum down to 40mV P-P noise

Output Impedance: Bandwidth: 150Ω  
Signal to Noise Ratio: ±0.5dB between 10 Hz and 5 kHz 30 to 40dB  
(depending on speaker)

Internal Voltage Levels: ±3V to ±4.5V  
Power Supply: 15V unregulated wall mount

Output Level Indicator: 30dB range bar display  
Output Level Control: Dimensions: Via a linear control  
Dimensions: 2.75" (H) x 8.25" (W) x 9.25" (D)

Weight: Less than 2 lbs

##### **Other Requirements-**

		<ul style="list-style-type: none"><li>• Rates of the spares/accessories/consumables which are not covered under guarantee/warranty should be- quoted individually and by the company (item not mentioned in the list are assumed under comprehensive warranty and company have to provide for proper function of equipment) and should be freezed for five years from the date of installation. Any spares/accessories/consumables not quoted by the company will be presumed to be supplied free by the company.</li><li>• Satisfactory Performance Certificate from three Central Government Hospital (AIIMS, PGI, SGPGI etc.) is mandatory.</li><li>• The instruments might be called for demonstration and approval. It is the sole discretion of the committee to approve or disapprove the quality.</li><li>• It should be European CE (with a four digit notifiable body) or USFDA approved.</li><li>• All the equipment including all the accessories should be provided with the detailed data sheet/ along with the original brochure of the quoted model (Photocopies/Print outs are not accepted).</li><li>• An undertaking to be provided by the principal/manufacturer of the system for availability of spares for 10 years for the date of installation.</li></ul>	
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**Annexure-II**

**TECHNICAL BID**

Name of Firm/Contractor/Supplier	
Complete Address & Telephone No.	
Name of Proprietor/Partner/Managing Director/Director.	
Phone No:- Mobile No:- Email Id:-	
Name and address of service centre nearby Jodhpur.	
Whether the firm is a registered firm Yes/No (attached copy of certificate).	
PAN No. (enclose the attested copy of PAN Card).	
GST IN (enclose the attested copy of GST Registration Certificate).	
Whether the Firm/Agency has signed each and every page of Tender/NIT.	
Please provide full list of consumables.	
Any other information, if necessary.	

Authorized signatory of the bidder with seal.

**Annexure-III**

Format for Affidavit of Self Certification regarding Local Content in a Medical Devices to be purchase on Rs. 100/- Stamp Paper.

I \_\_\_\_\_ S/o, D/o, W/o \_\_\_\_\_ Resident  
of \_\_\_\_\_ do  
hereby solemnly affirm and declare as under:

That I will agree to abide by the terms and conditions of the policy of Government of India issued vide Notification No:

That the information furnished hereinafter is correct to best of my knowledge and belief and I undertake to produce relevant records before the procuring entity or any authority so nominated by the Department of Pharmaceuticals. Government of India for the purpose of assessing the local content.

That the local content for all inputs which constitute the said medical device has been verified by me and I am responsible for the correctness of the claims made therein.

That in the event of the domestic value addition of the product mentioned herein is found to be incorrect and not meeting the prescribed value-addition norms based on the assessment of an authority so nominated by the Department of Pharmaceutical. Government of India for the purpose of assessing the local content, action will be taken against me as per Oder No. P-45021/2/2017-B.E-II dated 15.06.2017 and Guidelines issued vide letter no. 31026/36/2016- MD dated – 18.05.2018.

I agree to maintain the following information in the company's record for a period of 8 years and shall make this available for verification to any statutory authority.

- i. Name and details of the Domestic Manufacturer (Registered Office, Manufacturing unit location, nature of legal entity).
- ii. Date on which this certificate is issued.
- iii. Medical devices for which the certificate is produced
- iv. Procuring entity to whom the certificate is furnished
- v. Percentage of local content claimed
- vi. Name and contact details of the unit of the manufacturer
- vii. Sale Price of the product
- viii. Ex-Factory Price of the product
- ix. Freight, insurance and handling
- x. Total Bill of Material
- xi. List and total cost value of inputs used for manufacture of the medical device.
- xii. List and total cost of inputs which are domestically sourced Value addition certificates from suppliers. If the input is not in use attached.
- xiii. List and cost of inputs which are imported, directly or indirectly.

**For and on behalf of**

**(Name of firm/entity)**  
Authorized signatory

**Annexure-IV**

**MANUFACTURER's / PRINCIPAL's AUTHORIZATION FORM**

To

The Administrative Officer,  
All India Institute of Medical Sciences, Jodhpur

Sir,

TENDER: \_\_\_\_\_.

we, \_\_\_\_\_, who  
are established and reputable manufacturers of \_\_\_\_\_, having  
factories at \_\_\_\_\_ and \_\_\_\_\_, hereby  
authorize Messrs. \_\_\_\_\_ (name and address of agents)  
to bid, negotiate and conclude the contract with you against Tender  
No. \_\_\_\_\_ for the above goods manufactured by us.  
No company or firm or individual other than Messrs. \_\_\_\_\_ are authorized to  
bid, negotiate and conclude the contract in regard to this business against this specific tender.

We hereby extend our full guarantee and warranty as per the conditions of tender for the goods offered  
for supply against this tender by the above firm.

The authorization is valid up to \_\_\_\_\_

Yours faithfully,

For and on behalf of Messrs. \_\_\_\_\_  
(Name of manufacturers) Principal :



**Annexure-V**

**TENDER ACCEPTANCE CERTIFICATE**

(To be given on company letter head)

1. I/We have downloaded/obtained the tender document(s) for the above mentioned 'Tender/Work' form the website(s) namely: - Tender for Complete Speech And Voice Lab Including Electroglottography With Nasometer And Phonatory Aerodynamic System at AIIMS Jodhpur.
2. I/We hereby certify that I/we have read the entire terms and conditions of the tender documents (including all documents like annexure(s), schedule(s), etc.) which form part of the contract agreement and I/we shall abide hereby the terms/conditions/clauses contained therein.
3. The corrigendum(s) issued from time to time by your Institute too have all been taken into consideration, while submitting this acceptance letter.

Date: Name :

Place: Business Address :

Signature of Bidder :

Seal of the Bidder :