

**NATIONAL INSTITUTE FOR EMPOWERMENT OF PERSONSWITH MULTIPLE DISABILITIES**

(Department of Disability Affairs Ministry of Social Justice and Empowerment, Govt. of India)

ECR, Muttukadu, Kovalam Post, Chennai 603 112, Tamilnadu.

Fax: 044-27472389 Tel: 044-27472104, 27472113, 27472046

Website: www.niepmd.tn.nic.in E-mail: niepmd@gmail.com

E-TENDER NOTICE: FOR SUPPLY OF AUDIOLOGY EQUIPMENT

E-tenders are invited through NIC e-procurement portal URL <https://eprocure.gov.in/eprocure/app>” in two bid system i.e. (i) Technical bid and (ii) Financial bid from reputed agencies & Suppliers having proven track record in supplying of audiology Equipments with an annual turnover of not less than **Rupees Two Crores** per annum for the last three Financials years. The tender document can be downloaded from NIEPMD web site url: www.niepmd.tn.nic.in or NIC e-procurement portal url <https://eprocure.gov.in/eprocure/app>”.

File No. NIEPMD/Pur4 (62)/2017-2018

Last date of E-Bidding	3.00 PM. On 21-12-2017
Cost of Tender Document	Rs. 1000/-
EMD (Through NEFT / RTGS)	Rs.5,00,000/- (Five Lakh)
Date & Time of Opening of Tender Documents	04.00 PM. On 22-12-2017
Tele: 044-27472046/27472113 Tele fax: 044-27472389 E-mail:niepmd@gmail.com	

DIRECTOR

ASPO:

Permission may please be given to publish the Tender Notice One English National daily all India edition, Indian Trade journal (ITJ), NIC e-procurement portal, GeM portal (as per Ministry guidelines) and Institute website for wide publicity.

Director

**NATIONAL INSTITUTE FOR EMPOWERMENT OF PERSONS
WITH MULTIPLE DISABILITIES (NIEPMD)**

(Department of Disability Affairs, Ministry of Social Justice & Empowerment, Govt. of India)
East coast Road, Muttukadu, Kovalam(post) Chennai-603 112

[Tel:044-27472113,27472046](tel:044-27472113,27472046) Fax: 044-27472389

www.niepmd.tn.nic.in Email:niepmd@mail.com

TENDER NOTICE FOR SUPPLY OF AUDIOLOGY EQUIPMENT

NIEPMD/Pur4 (62)/2017-2018

Last date for e-bidding` : **3.00 PM. On 21-12-2017**
Cost of Tender document : **Rs.1,000/-**
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Tele: 044-27472046/27472113 Telefax: 044-27472389 E-mail:niepmd@gmail.com

DIRECTOR

National Institute for Empowerment of Persons with Multiple Disabilities (Divyangjan) is a Central Autonomous Body under the Ministry of Social Justice & Empowerment, Government of India. The Institute intends to procure audiology equipment for NIEPMD HQs at Muttukadu, Chennai, its composite regional centres (located other parts of India), and for Department of Social Welfare Andaman & Nicobar, Port Blair.

The institute is inviting e-tenders in two bid system i.e. (i) Technical bid and (ii) Financial bid from reputed authorised distributors/ Authorized Dealers / Manufacturer having proven track record for supplying of Audiology materials with an annual turnover of not less than **Rupees Two Crores** per annum for the last three Financials years. Interested bidders can apply on line through NIC e-procurement portal URL "<http://eprocure.gov.in/eprocure/app>". The tender document can also be downloaded from our website url: www.niepmd.tn.nic.in.

Date: 20th Nov 2017

DIRECTOR

GENERAL TERMS & CONDITIONS

1. **Tender will be available on NIC e-procurement portal URL <http://eprocure.gov.in/eprocure/app> from 28th Nov 2017 to 21th Dec 2017.**
2. EMD amount of Rs. 5,00,000 (Five Lakh) & Tender fee of Rs. 1,000/- should be paid online through NEFT or RTGS in NIEPMD account and payment receipt to be uploaded with technical bid of tender. Bids without Tender fee and EMD amount shall not be considered for further evaluation Tender received without Tender Fee and EMD or lesser amounts will be summarily rejected. No further correspondence will be accepted on the subject.
3. No alteration or amendments shall be allowed after submission and opening of the tenders.
4. During the process of technical evaluation the bidder may be asked to display the samples of quoted product for technical evaluation by NIEPMD authorities. Non production of sample may result in rejection of bid.
5. **OEM product showing product technical specification and product feature must be uploaded with technical bid in support of claim made by bidders about the quoted products. Non uploading of product brochure with technical bid may cause rejection of quoted product. No further correspondence will be accepted on the subject.**
6. The technical evaluation of bids will be carried out by the expert member in field. If required NIEPMD may kept a meeting for technical evaluation of bids. It will be mandatory for all bidders to attend the technical evaluation meeting for verification and discussion of quoted product technical characteristic and other details. Bidder not attending may not be considered for further evaluation of bids.
7. During the process of technical evaluation NIEPMD may asked the bidders to produce the original copies of all document uploaded, mentioned or experience necessary to finalise the bid.
8. The financial bids of technically qualified bidders only will be opened same day or the time of opening will be intimated.
9. The order will be awarded for supply of audiology equipment with the lowest cost per unit from the technically qualified bidder.
10. Tender submitted shall remain valid for 90 days from the date of opening of technical bids for the purpose of acceptance and award of contract, validity beyond 90 days from the date of opening shall be by mutual consent.
11. Bidder must submit a certificate of undertaking that he is in position to supply to supply audiology equipment with a credit of 30 days after clear receipt and installation of materials.
12. **Bidders are requested to read the bid document carefully and wherever it is asked to submit documentary proof in support of claim made by them for about quoted products, their experiences, financial status, oem / dealership / authorised distributorship / proprietorship or any other requirement mentioned in tender document must be uploaded with technical bid. It is the sole responsibility of bidders to submit the technical duly supported**

with all document. NIEPMD may not accept any claim hereafter however decision of NIEPMD technical committee, purchase committee and Director NIEPMD will final and binding to all. No correspondence will accepted on the subject.

13. Quoted products rates will remain valid for one year from the date of finalisation of contract. The period may be extended for 02 more years subject to satisfactory performance of bidders and condition that bidder is **ready to supply the latest version of equipment on no extra cost**. During the currency of one year contract also bidder is bound to supply the latest configuration equipment only. In case of supplying of older version of product, new version product with old version of software etc. will not be accepted by the institute and in such cases contract will be terminated and supplied product will also be rejected. No claim will be accepted in this regard. However contract beyond one year will be sole discretion of NIEPMD. NIEPMD is not in any binding to extend the contract beyond one year.
14. During the currency of one year contract NIEPMD is not bound to place the order with qualified bidder only. Institute is free to purchase the items from any other agencies after following due rules and procedures in force by the Govt. at the time of purchase.
15. The Director, NIEPMD, reserves all rights to reject any tender, modify terms and conditions, extend the important dates including of those tenderers who fail to comply with the instructions without assigning any reason what so ever and does not bind itself to accept the lowest or any specific tender. The decision of Director, NIEPMD in this regard shall be final and binding
16. In case of any dispute arising with regards to this tender or its conclusion, the decision of the Director NIEPMD shall be final.

DEFINITION

- a) The term Institute shall mean NIEPMD, Chennai.
- b) The term Bidder shall mean the bidder selected by the Institute for the supply of materials.

SCOPE OF WORK

Department for Empowerment of Persons with Disabilities (DEPwD), Ministry of Social Justice and Empowerment, Government of India has entrusted NIEPMD to purchase the Audiology Equipments to provide services to persons with disabilities. On behalf of ministry Institute is procuring Equipments for NIEPMD HQs at Muttukadu, Chennai, its composite regional centres (located other parts of India), and for Department of Social Welfare Andaman & Nicobar, Port Blair.

NIEPMD is inviting e-tender from reputed suppliers & Agencies with proven track record and with an annual turnover of not less than rupees **Two Crore** per annum for the last three Financials years to supply the following items

The items wise **specification** is given below:

Sl. No.	Nomenclature	Qty.	Remarks
01	Dual Channel Audiometer (to be supplied with standard accessories mentioned in Appendix.)	02 Nos.	Detail specification attached as Appendix "A".
02	Digital Otacoustic Emission Instrument (to be supplied with standard accessories mentioned in Appendix.)	01 Nos.	Detail specification attached as Appendix "B".
03	AEP System with Continuous Acquisition Module & ASSR (to be supplied with standard accessories mentioned in Appendix.)	01 Nos.	Detail specification attached as Appendix "C".
04	Computerized Clinical Audiometer with VRA Testing (to be supplied with standard accessories mentioned in Appendix.)	01 Nos.	Detail specification attached as Appendix "D".
05	Software for Complete Acoustic Analysis for Speech (to be supplied with standard accessories mentioned in Appendix.)	01 Nos.	Detail specification attached as Appendix "E".
06	Diagnostic Impedence (to be supplied with standard accessories mentioned in Appendix.)	03 Nos.	Detail specification attached as Appendix "F".
07	Fonix-8000 Hearing Aid Test System with ISI & ANSI standards (to be supplied with standard accessories mentioned in Appendix.)	01 Nos.	Detail specification attached as Appendix "G".
08	Screen OAE and ABR Combo (to be supplied with standard accessories mentioned in Appendix.)	01 Nos.	Detail specification attached as Appendix "H".
09	ABR Diagnostic (to be supplied with standard accessories mentioned in Appendix.)	01 Nos.	Detail specification attached as Appendix "J".
10	Screening Audiometer (Portable) (to be supplied with standard accessories mentioned in Appendix.)	02 Nos.	Detail specification attached as Appendix "K".
11	Paediatric Audiometer (to be supplied with standard accessories mentioned in Appendix.)	02 Nos.	Detail specification attached as Appendix "L".
12	Hi-Pro 2 (to be supplied with standard accessories mentioned in Appendix.)	02 Nos	Detail specification attached as Appendix "M".

Important:-Product requirement mentioned above may increase or decrease as per Institutes requirement. However NIEPMD is not bound to place the order of mentioned products. It is on the sole discretion of NIEPMD authorities on the go for the purchase. NIEPMD may not even place the order for any product during contract period.

Special Terms & Conditions

1. The Bidder shall be a registered company/firm/HUF in respective field.
2. The bidder should have their own agency facility. Proof to be uploaded in the Technical Bid.
3. Certified copies of abridged balance sheets along with profit & loss account of the firm (tenderer) in support of annual financial turnover during the last 03 FYS years, ending 31st March 2017 duly certificate by Chartered accountant should be uploaded with technical Bid
4. The applying firm must be registered with the Sales Tax / Value Added Tax/ GST and the supporting proof for the same is to be uploaded.
5. Bidders should provide brief profile of their work experience for the last three years. (Attach Proof)
6. The successful bidder will be required to execute a performance security of Five percent of the value of the contract in the form of bank guarantee or the amount of security deposit should be deducted from his bills. The same will be refunded at end of defect liability period or after one year whichever is later. No interest on performance security will be admissible.
7. The materials should be delivered at the address mentioned in purchase order within 60 days from the date of issue of purchase order. The purchase order will be treated automatically cancelled after this period. Any extension in delivery period will be on the sole discretion of competent authority NIEPMD.
8. **The total cost quoted should be exclusive of taxes. Applicable taxes to be mentioned separately. Tax applicable at the time of invoice will be paid.**
9. NIEPMD reserves the right to accept / reject/ select more than one Agency and to annul the bidding process of any or all bids at any time prior to award of contract without thereby incurring any liability to the affected bidders.
10. The tender will be appraised by committee formed by NIEPMD.
11. NIEPMD shall without prejudice to its other remedies under the contract, deduct from the Contract price, as Liquidated Damages a sum equivalent to 5% of the price of delayed Goods or unperformed services for delay of each day until actual delivery or performance, up to a maximum deduction of 20% of the contract price. Once the maximum is reached, NIEPMD may consider termination of the contract and can forfeit the Performance Guarantee amount.
12. The payment will be made within **30 (Thirty) working days** after the supply and installation of material at site and production of Clear receipt.

We agree to all terms and conditions as mentioned above including the validity of the offer.

Utmost confidentiality of the data provided shall be maintained.

Name, Designation & Signature of the bidder with the seal

UPLOADING OF BIDS

Interested bidder may submit their quotes by giving all the necessary documents in English or Hindi as specified. **The tender must be submitted online through Central Public Procurement Portal e-procurement application only through URL: <http://eprocure.gov.in/eprocure/app> only.** No manual bids will be entertained under any circumstances.

The Tender document attached must be direct, concise, and complete and arranged in an organized and structured manner.

To participate in online bidding process, Bidders must procure a Digital Signature Certificate as per Information Technology Act-2000 using which they can digitally sign and encrypt their electronic bids. Bidders can procure the same from any CCA approved certifying agency, i.e. TCS, Safecrypt, Ncode, eMudhra etc. Bidders who already have a valid Digital Signature Certificate (DSC) need not procure a new DSC.

NIEPMD will not be responsible for delay in online submission due to any reason. For this, bidders are requested to upload the complete bid proposal well advance in time so as to avoid issues like slow speed, choking of web site due to heavy load or any other unforeseen problems.

Bidders are also advised to refer visit any local NIC office or call CPPP 24x7 toll free number 1800-3070-223 or mobile No. 07878007972, 07878007973 for further details about the e-tendering / bidding process.

Payment Details:

The following details should be used for making payment of tender fee:-

A/C No. 761297290

Name of Account Holder: Director, NIEPMD

Type of Account: Saving Bank

Name of Bank: Indian Bank, Kovalam Branch

IFS Code: IDIB000K122

MICR Code: 600019133

Branch Code: 01176

NIEPMD PAN: AABTN4536B

ABNORMAL RATES

If it is noticed that the unit rates quoted by the Tenderer for any items are unusually high or unusually low, it will be sufficient cause for rejection of the tender unless the Institute is convinced about the reasonableness of the unit

rates on scrutiny of the analysis for such unit rate to be furnished by the tenderer on demand.

DEVIATIONS TO TENDER CLAUSES:

Tenderers are advised to submit the tenderers strictly based on the terms and conditions and specification contained in the Tender Documents and not to stipulate any deviations. Conditional tenders are liable to be rejected.

VALIDITY OF OFFER

Tender submitted by tenderers shall remain valid for acceptance for a minimum period of 90 days from the date of opening of the tenders.

ACCEPTANCE / REJECTION OF TENDER

- i) Institute does not bind itself to accept the lowest tender.
- ii) Institute also reserves the right to accept or reject any tender in part or full without assigning any reason whatsoever.
- iii) Institute also reserves the absolute right to reject any or all the tenders at any time solely based on the past unsatisfactory performance by the bidder(s) the opinion/decision of NIEPMD regarding the same shall be final and conclusive.

SUFFICIENCY OF TENDER:

The Contractor / Supplier shall be deemed to have satisfied himself before tendering as to the Correctness and sufficiency of his tender for the works and of the rates and prices quoted in the Schedule of Quantities, which rates and prices shall except as otherwise provided, cover all his obligations under the contract and all matters and things necessary for the proper completion and maintenance of the Works.

SECURITY DEPOSIT:

Total security deposit shall be 5% of the accepted tender cost and shall be deducted from the payment to be made to the Contractor / Supplier. Earnest Money deposited shall be adjusted in the security deposit. The security deposit can be accepted in the form of unconditional Bank Guarantee of nationalized bank/scheduled bank also. The security deposit will be refunded on completion of defect liability period of equipment.

TIME AND EXTENSION FOR DELAY:

- (a) The time allowed for supply of material will be 60 days from the date of issue of purchase order. Purchase order will automatically treated as cancelled after 60 days. Any extension beyond this period will be at discretion of competent authority.
- (b) If the supply be delayed by

- (a) Force majeure or
 - (b) Serious loss or damage by fire, or
 - (c) Civil commotion, local combination of workmen strike or lockout, affecting any of the trades employed on the work, or
 - (d) Any other cause, which, in the absolute discretion of the competent authority, is beyond the Contractor's/Supplier's control;
- (c) Then upon the happening of any such event causing delay, the Contractor/ Supplier shall immediately give notice thereof in writing to the Officer- in-Charge purchase section but shall nevertheless use constantly his best endeavours to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of the Officer- in-Charge to proceed with the supply.

FORCE MAJEURE

Any delays in or failure of the performance of either party herein shall not constitute default hereunder or give rise to any claim for damages, if any, to the extent such delays or failure of performance is caused by occurrences such as Act of god or the public enemy; expropriation or confiscation of facilities by Government authorities, or in compliance with any order or request of any Governmental authorities or due acts of war, rebellion or sabotage or fires, floods, explosions, riots or illegal joint strikes of all the workers of all the Contractor / Supplier s.

MATERIALS

All materials to be provided by the Contractor / Supplier shall be in conformity with the specifications laid down in the tender document and the Contractor shall, if requested by the Officer- in-Charge, furnish proof to the satisfaction of Officer-in-Charge in this regard. The Equipment should have required National and International quality and security certification. Wherever possible all equipment should have ISI/BIS/CE/FCC/ROHS/WEEE certification (as applicable)



Equipment having proper certifications from national and international agencies will only be accepted. Also equipment having more certification will be given priority in technical evaluation. Claim of certification should be proved by the vendor duly supported by documents.

Agencies quoting the Equipments must produce OEM / Authorised distributor / Authorised dealer certificate duly supported by proper testimonials. Original copies of all these documents should be produced in technical evaluation meeting,

In case of any item should be of "Proprietary" in nature than proprietary certificate should be uploaded by the bidder and claim will be evaluated in term of Rule No. 166 of GFR-2017.

WARRANTY & COMPREHENSIVE MAINTENANCE

1. The quoted product must have **under two year warranty**, after successful testing, commissioning & installation of product at site and defect free maintenance during the period. **Two year product warranty is mandatory for quoting the product.** After the end of the warranty period, it will be **mandatory** on the part of the vendor to enter into a **3 year Comprehensive Annual Maintenance Contract (AMC)** with NIEPMD. Bidder quoting the product without extended warranty and AMC will not be considered for financial evaluation.

2. The product cost should be quoted with 03 years Comprehensive Annual Maintenance Contract only. No AMC charges will be paid separately. (Mandatory AMC period will be calculated after expiry of 02 years mandatory warranty period).

3. During this 5 years of period, contractor has to undertake preventive maintenance & break down maintenance, if any. Bidder shall ensure the availability of spares during AMC period.

4. **Training to be given to NIEPMD staff for operation & maintenance, troubleshooting, user level training pertaining to system after successful commissioning. User manual (In colour paper back printed format) of each product should be provided with each product. The manual to be printed in bilingual i.e. English, Hindi and Tamil.** Soft copies of manuals should also be provided by Bidder to Institute.

General Conditions for Guarantee / Warranty & Repair and Maintenance of Equipment

- a) Onsite maintenance and up keeping of the all product installed.
- b) Repair to be carried out at the location of the equipment only (Onsite) unless otherwise it's mandatory to take the equipment to workshop. Transportation cost will be borne by vendor only.
- c) Standby arrangement to be made in case the equipment is to be taken to workshop for repairs.
- d) Coordination with OEMs for troubleshooting of the Equipments and other **peripherals under warranty.**
- e) Any other maintenance work to be undertaken related to the equipment supplied.

- f) The replacement of any part of the product, whenever required, must be carried out by the vendor with genuine part of same specification only and warranty after replacement to be provided.
- g) The firm shall maintain the equipment as per manufacturer's guidelines and shall use standard OEM components for replacement.
- h) The service engineers would take up any reported fault with 48 hours. As far as possible, the repairs would be carried out on-site. However, in case the equipment is taken to the workshop, the firm would provide a standby for the same.
- i) The backing out of vendor from agreed term and conditions in tender document would be automatically debar the firm from any further dealing with NIEPMD and EMD/performance guarantee amount would also be forfeited.
- j) **No advance payment** in any case would be made.
- k) It will not be open for the contractor to refuse maintenance of any equipment supplied under this contract during the currency of contract.
- l) The contractor shall be responsible for any loss or damage caused to any of the machines owing to negligence on his part
- m) In case of any dispute, the settlement will be made in the Courts of Chennai only.
- n) Firm must provide customer satisfaction letter from at least two customers from govt. department/PSU while submitting the technical bids.
- o) Firm must have sufficient numbers of qualified and experienced engineers and a list of those engineers must be enclosed with technical bids.
- p) Establishment of the firm must be more than 05 years old and the firm should be in same business at least since 05 years.
- q) Ensuring that the covers, screws, switches etc. are firmly fastened in respect of each equipment after repair and maintenance of product.
- r) Running of diagnostic software for system performance.

Standard Conditions of Contract:

The Bidder, is required to give confirmation of their acceptance of the Standard Conditions of the Contract mentioned below which will automatically be considered as part of the Contract concluded with the successful Bidder (i.e. Contractor/Supplier in the contract) as selected by the customer. Failure to do so may result in rejection of the Bid submitted by the Bidder/firm.

1. **Law:** The Contract shall be considered and made in accordance with the laws of the Republic of India. The contract shall be governed by and interpreted in accordance with the laws of the Republic of India.

2. Effective Date of Contract:

The contract shall come into effect on the date of award of contract and shall remain valid until the completion of the obligations of the parties under the contract. The deliveries and supplies and performance of the services shall commence from the effective date of the contract.

3. Arbitration: All disputes or differences arising out of or in connection with the contract shall be settled by bilateral discussions. Any dispute, disagreement or question arising out of or relating to the Contract or relating to services or performance, which cannot be settled amicably, may be resolved through arbitration. The standard clause of arbitration is given in Annexure-B.

4. Penalty for use of Undue influence: The firm/Bidder undertakes that he has not given, offered or promised to give, directly or indirectly, any gift, consideration, reward, commission, fees, brokerage or inducement to any person in service of the customer or otherwise in procuring the Contracts or forbearing to do or for having done or forborne to do any act in relation to the obtaining or execution of the present Contract or any other Contract with the Government of India for showing or forbearing to show favour or disfavour to any person in relation to the present Contractor any other Contract with the Government of India. Any breach of the aforesaid undertaking by the Contractor/Supplier or any one employed by him or acting on his behalf (whether with or without the knowledge of the contractor) or the commission of any offence by -the contractor or anyone employed by him or acting on his behalf, as defined in chapter IX of the Indian Penal Code, 1860 or the Prevention of Corruption Act, 1986 or any other Act enacted for the prevention of corruption shall entitle the customer to cancel the contract and all or any other contracts with the contractor and recover from the contractor the amount of any loss arising from such cancellation. A decision of the customer or his nominee to the effect that a breach of the undertaking had been committed shall be final and binding on the Contractor. Giving or offering of any gift, bribe or inducement or any attempt at any such act on behalf of the contractor towards any officer/employee of the customer or to any other person in a position to influence any officer/employee of the customer for showing any favour in relation to this or any other contract shall render the contractor to such liability/penalty as the customer may deem proper, including but not limited to termination of the contract, imposition of penal damages, forfeiture of the Bank Guarantee and refund the amounts paid by the customer.

5. Agents/Agency Commission: The firm/Bidder contractor/Supplier confirms and declares to the customer that the contractor is the original provider of the services referred to in this Contract and has not engaged any individual or firm, whether Indian or foreign whatsoever, to intercede, facilitate or in any way to recommend to the Government of India or any of its functionaries whether officially or unofficially, to the award of the contract to the contractor, nor has any amount been paid, promised or intended to be paid to any such individual or firm in respect of any such intercession, facilitation or recommendation. The contractor agrees that if it is established at any time to the satisfaction of the customer that the present declaration is in any way incorrect or if at a later stage it is discovered by the customer that the contractor has engaged any such individual/firm, and paid or intended to pay any amount, gift, reward, fees, commission or consideration to

such person, party, firm or institution, whether before or after the signing of this contract the contractor will be liable to refund that amount to the customer. The contractor will also be debarred from entering into any supply Contract with the Government of India for a minimum period of Five years. The customer will also have a right to consider cancellation of the Contract either wholly or in part, without any entitlement or compensation to the Contractor who shall in such an event be liable to refund all payments made by the customer in terms of the contract along with interest at the rate of 2% per annum above 18% penal rate. The customer will also have the right to recover any such amount from any contracts concluded earlier with the Government of India, or with Legislative Department.

6. **Access to Books of Accounts:** In case it is found to the satisfaction of the customer that the contractor has engaged an Agent or paid commission or influenced any person to obtain the contract as described in clauses relating to Agents/Agency Commission and penalty for use of undue influence, the Contractor, on a specific request of the customer shall provide necessary information/inspection of the relevant financial documents/information.

7. **Non-disclosure of Contract documents:** Except with the written consent of the customer, contractor shall not disclose the contract or any provision of the contract or information related to services thereof to any third party.

8. **Termination of Contract:** The customer shall have the right to terminate this Contract in part or in full in any of the following cases:-

- (a) The delivery of the product & services is delayed for causes not attributed to Force Majeure for more than time mentioned in tender document.
- (b) The contractor is declared bankrupt or becomes insolvent. The delivery of the product & services is delayed due to causes of Force Majeure by more than 01 months provided Force Majeure clauses is included in contract.
- (c) The customer has noticed that contractor has utilized the services of any agent in getting this contract and paid any commission to such individual/company etc.
- (d) As per decision of the Arbitration Tribunal.
- (e) If the delivery of the product & services are not found satisfactory as per Tender terms.
- (f) By Director NIEPMD at any time without assigning any reason.

10. **Notices:** Any notice required or permitted by the contract shall be written in the English / Hindi language and may be delivered personally or may be sent by E-mail /FAX or registered pre-paid mail/airmail, addressed to the last known address of the party to whom it is sent.

11. **Transfer and Sub-letting:** The firm/bidder has no right to give, bargain, sell, assign or sublet or otherwise dispose of the contract or any part thereof, as well as to give or to let a third party take benefit or advance of the present Contract or any part thereof.

12. **Amendments:** No provision of present contract shall be changed or modified in any way (including this provision) either in whole or in part except by an instrument in writing made after the date of this Contract and signed on behalf of both the parties and which expressly states to amend the present Contract.

13. **Fall Clause:** The following fall clause will form part of the contract placed on successful Bidder:

- (a) The price charged for the services supplied under the contract by the contractor/firm shall in no event exceed the lowest price at which the contractor provides the services of identical description to any persons / organization including the customer or any department of the Central Government or any department of state government or any statutory undertaking of the central or state government as the case may be during the period till performance of all services placed during the currency of the contract is completed.
- (b) If at any time, during the said period the contractor/firm reduces the service price or offer to provide services to any person / organization including the customer or any department of central Government or any Department of the State Government or any Statutory undertaking of the Central or State Government as the case may be at a price lower than the price chargeable under the contract. Such reduction of services offer of the price shall stand correspondingly reduced.

15. **Risk & Expense clause:**

- 1. Should the services thereof not be delivered within the time or times specified in the contract documents, or if defective services is made in respect of the services thereof, the customer shall after granting the contractor seven days to cure the breach, be at liberty, without prejudice to the right to recover liquidated damages as a remedy for breach of contract, to declare the contract as cancelled either wholly or to the extent of such default.
- 2. Should the services thereof not perform in accordance with the specifications/parameters provided by the customer during the check proof tests to be done by the customer, the customer shall be at liberty, without prejudice to any other remedies for breach of contract, to cancel the contract wholly or to the extent of such default.
- 3. In case of a contractual breach that was not remedied within 07 days, the customer shall, having given the right of first refusal to the contractor be at liberty to provide services from any other source as he thinks fit, of the same or similar description to services.
- 4. Any excess of the services price, cost of services or value of any services procured from any other contract as the case may be, over the contract price appropriate to such default or balance shall be recoverable from the firm/Contractor by Customer.

Force Majeure Clause:

- a. Neither party shall bear responsibility for the complete or partial non-performance of any of its obligations (except for failure to pay any sum which has become due on account of receipt of goods under the provisions of the present contract), if the non-performance results from such Force Majeure circumstances as Flood, Fire, Earth Quake and other acts of God as well as War, Military operation, blockade, Acts or Actions of State Authorities or any other circumstances beyond the parties control that have arisen after the conclusion of the present contract.
- b. In such circumstances the time stipulated for the performance of an obligation under the present contract is extended correspondingly for the period of time of action of these circumstances and their consequences.
- c. The party for which it becomes impossible to meet obligations under this contract due to Force Majeure conditions, is to notify in written form the other party of the beginning and cessation of the above circumstances immediately, but in any case not later than 10 (Ten) days from the moment of their beginning.
- d. Certificate of a Chamber of Commerce (Commerce and Industry) or other competent authority or organisation of the respective country shall be a sufficient proof of commencement and cessation of the above circumstances.
- e. If the impossibility of complete or partial performance of an obligation lasts for more than one month either party hereto reserves the right to terminate the contract totally or partially upon giving prior written notice of 15 days to the other party of the intention to terminate without any liability other than reimbursement on the terms provided in the agreement for the goods received.

.....We agree to all terms and conditions as mentioned above including the validity of the offer. Utmost confidentiality of the data provided shall be maintained.

Name, Designation & Signature of the bidder with the seal

**NATIONAL INSTITUTE FOR EMPOWERMENT OF PERSONS
WITH MULTIPLE DISABILITIES (NIEPMD)**

(Department of Disability Affairs, Ministry of Social Justice & Empowerment, Govt. of India)

East coast Road, Muttukadu, Kovalam (post) Chennai-603 112

[Tel:044-27472113,27472046](tel:044-27472113,27472046) Fax:044-27472389

www.niepmd.tn.nic.in Email:niepmd@mail.com

TECHNICAL BID

(To be enclosed in separate sealed cover)

Name and address of the bidder:

1. Name of the bidder
 - a) Full postal address

 - b) Full address of the premises

 - c) Telegraphic address

 - d) Telex number

 - e) Telephone number

 - f) Fax number

2. Monthly (single shift) supply capacity of goods quoted for
 - a) Normal

 - b) Maximum

3. Total annual turn-over (value in Rupees) (Last 03 FYs 2014-15, 2015-16, 2016-17) Financial year wise detail to be mentioned.

(Copy of Balance Sheet / Audit Statement / IT returns, etc. to be uploaded as proof)

4. Past supply details for 3 years (major orders only)

5. Whether similar job work undertaken in the past, if so details and samples
Customer Quantity supplied Year

6. **SPECIFICATIONS of Equipment:**

Attached as Appendix “A” to “M” of this NIT.

7. Have you worked with NIEPMD earlier? If yes, please give details of the work done.

Signature and seal of the bidder

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WITH MULTIPLE DISABILITIES (NIEPMD)**

(Department of Disability Affairs, Ministry of Social Justice & Empowerment, Govt. of India)

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www.niepmd.tn.nic.in Email: niepmd@mail.com

FINANCIAL BID

Microsoft Excel format BOQ downloaded from CPP portal url

“<http://eprocure.gov.in/eprocure/app>” Should carefully filled and uploaded as financial bid. No commercial quoted should be mentioned with technical bid. Quoting financial quoted with technical bid will cause rejection of bids technically.

Signature and seal of the bidder

CHECK LIST

The Technical Bid shall be summarily rejected, if these documents are not attached. Documents must be attached in following serial order only.

Sl. No.	Particulars	Yes / No
01.	Technical Bid	
02.	Tender Fee Rs.1,000/- (Rupees One thousand only) as cost of Tender (Non-Refundable) . (Scan copy of receipt must be uploaded with technical bid)	
03.	EMD Amount of Rs.5,00,000/- (Rupees Five Lakh) (receipts of online payment must be uploaded with technical bid)	
04	List of previous supplies (attach copy of purchase orders / completion report if available).	
05.	Copy of affidavit duly notarized or certificate issued by Competent Authority as a proof of proprietary (in case of Partnership firm).	
06.	Copy of appropriate PAN Card	
07.	Copy of Income Tax Return of the firm/company/agency (Individual in case sole proprietary firm) for last 03 financial year.	
08.	Copy of Registration with Service Tax/ Sales Tax/ VAT / GST.	
09.	Undertaking to supply on credit of 30 days after clear receipt of materials	
10.	Proof of annual turnover of not less than Rupees Two Crores per annum for the last three Financials years (CA certified copies and profit and loss statement with balance sheet to be uploaded with technical bid)	
11	Certificate by the bidder to be uploaded stating that the firm / company has not been black listed by any Central Govt. / State Govt. / PSU agencies. (Must uploaded on company letter head)	
12	Certificate by the bidder to be uploaded that they have read and understand all the term and conditions mentioned in the tender document and agree with them.	
13	Technical specification broacher (OEM product specification brochure) of quoted models in support of technical data of quoted model. (Must uploaded)	
14	Undertaking regarding rates will be firm during one year contract period. (Self-Certificate on company letter head to be uploaded)	
15	Affidavit regarding quoted product are quoted with 02 year full warranty followed by 03 years comprehensive annual maintenance contract (Total 05 Years full cover)	
16	The Bidder must either be the Original Equipment Manufacturer (OEM) or an authorized dealer. In case of OEM, Proof of being Original Equipment Manufacturer (OEM) or authorized dealer must be attached OR In case of authorized representative of OEM - current authorization from the OEM. OR In case of System Integrator- authorization of OEM declaring the tenderer as system integrator for its product, detailed and valid agreement	

	between System Integrator and the OEM(s) defining clearly the role, responsibility, scope of work and contribution towards the tendered Equipment/System for each OEM(s).	
17	Must contain the copies of Appendix "A", to Appendix "M" clearly showing availability or Non availability of features asked there in.	

Appendix "A"

Name of the Instrument: Dual channel Audiometer

Test stimuli parameters:

Channels - Two Separate and identical channels, with independent attenuators, standalone module, (non computer based) .

Intensity

AC: -10 to 120 dB HL.

BC: -10 to 75 dB HL

AC High Frequency: -20 to 100 dB HL

Speech: -10 to 100 dB HL

Masking: 10 to 100 dB HL

Frequency range: 125 – 12,000 Hz,
8-20 kHz (with HDA-200 headphones)

Frequency resolution: 1/2 to 1/24 per Octave and 1 Hz step

Intensity resolution: 1 dB

Modulation depth: 1-25%

Modulation rate: 1-20 Hz

Stimulus Input: Tone, pulse, warble, FRESH noise, Tape and/or CD/ computer, microphone, Speech from Hard-Drive

Masking: NBN, WN, SN, Ipsi Masking

Output Transducer: AC – TDH 39/50,
BC – B 71,
High Frequency – HDA 200
Free field speakers
Insert phones 3A/5A
Single Insert for masking (if Applicable).
Talk over Microphone built-in or external microphone
Monitor Head Set built-in speaker or ext. earphone or speaker

Test facility:

Pure tone Audiometry

- Air conduction
- Bone conduction
- Free field

Speech Audiometry

- Air conduction
- Free field

Special Test:

On Board VRA Control facilities

ABLB

SISI

User Defined Test like MLB, Lombard test, pure tone & Speech Stranger, SAL, Doerfler – Stewart test

Built in SAL

Built in TEN test

Built in Tinnitus Assessment protocol

Built in Quick SIN test

CUNY test

Binaural Speech

MLD

CD and hard copy of the built in speech checklist.

PC interface USB.

Standard Accessories:

Integrated Computer system (with Core i7 Intel processor, 8GB RAM, minimum 19 inch screen size) compatible for VRA system also.

TDH 39/50 (2 in no. for an audiometer)

HDA 200 (2 in no. for an audiometer)

B 71 (2 in no. for an audiometer)

Standard Insert phones ER 3A/ ER 5A(2 in no. for an audiometer)

Single Insert Phones for Masking if applicable (2 in no. for a audiometer)

Head phone calibrators/ auto calibration facility.

Sound field loudspeaker with appropriate wall mount stands

Monitor Head phone with boom microphone

Assistant head phone

Desktop microphone

Monitor speaker

Talk back microphone

Patient responder (2 in no. for a audiometer)

Power supply and main cable

Calibration kit

Cleaning kit

Path cords for all transducer and VGA cables for monitors for dual room situation

Extra LCD/LED Monitor Screen for VRA 2nos. for each audiometer min 19inch screen with Wall mounting plates

Connection cable

User manual and Service manual in CD and Hard copy to be provided in Tamil, English and Hindi languages.

Technical support or services to be provided as and when required.

Comprehensive AMC for 3 years after 02 years warranty period (Total cover:-05 Years)

Installation and Demonstration by the company along with an audiologist who holds an experience of two years and above handling the instrument.

Standard:

Audiometer: EN 60645 -1 / ANSI S3.6, Type 1

Speech: EN 60645-2 / ANSI S3.6 type A-E

Otoacoustic emission Instrument

Technical Specification OAE (DP and TE)

DP test option

DP 2 to 5 kHz

4 Frequencies tested (3 for pass)
Average test time 4 sec.
SNR 6dB

TE 1.5 to 4 kHz

6 Frequencies tested (3 for pass)
Average test time 64 sec.
SNR 4dB

Stimulus intensity: 40 to 70 dB SPL (DPOAE). 83 dB SPL (TEOAE).

Maximum output (Protection): 90 dB SPL.

Microphone system noise: -20 dB SPL @ 2 kHz (1 Hz bandwidth).
-13 dB SPL @ 1 kHz (1 Hz bandwidth).

Probe cables: 30 cm

Power supply: (4) AA/UM-3/R6 - alkaline (6V total)

Battery life: Approximately 300 tests.

Display: LCD-display 4 line x 10 character.

Instrument weight: 300g / 10.6oz. including batteries.

Printer specifications: Thermal dot matrix line printer.

Software language options: English

Should be Medical CE-mark

Included parts:

Handheld unit including probe cord
Cradle
Printer including power supply and power cable
Printer Cable
Carrying Bag
Thermal printer paper roll
Box of eartips
4 probe tips
4 AA/UW3/R6 Alkaline Batteries
Operation / CE manual

The instrument must be having facility for doing TEOAE, DPOAE and SOAE,

TEOAE Specifications:

- Facility of click stimulus and Tone burst stimulus
- Configurable stimulus intensity
- Band analysis from 1 KHz to 8 KHz
- Reproducibility in half octave bands
- Should have suppression facility
- Full cross correlation, frequency analysis with reproducibility and signal to noise data on single test or between test pairs
- Customized TEOAE protocol

DPOAE specifications:

- Frequency range Minimum of 500-10,000 Hz.
- Number of test points per octave: Upto 32 points per octave
- Intensity: f1 and f2 levels from 0 to 70 dB SPL.
- Customizable measurement protocols.
- Variable Ratio: f2/f1.
- DP Definition Points: f2-f1; 2f2-f1; 2f1-f2; 3f1-2f2; 3f2-2f1; 4f1-3f2; 4f2-3f1.
- Contra lateral suppression facility
- SNR assessment

SOAE specification

- Sensitive microphone to pick up SOAE
- Multiple SOAE's
- Actual and latent spontaneous OAE
- Computer Specification:
- Minimum Core i5 Pentium processor
- 4 GB DDR 3 RAM
- 14 inch Screen
- 500 GB hard disc

Manual : Hard Copies Bilingual (English /Hindi/ Tamil)

Name of the Equipment: AEP system with continuous acquisition module & ASSR

SPECIFICATIONS FOR AEP EQUIPMENT

Technical specifications AEP system with continuous acquisition module and ASSR

Special Key Features of BERA:

- **CE-CHIRP**
- **Fmp – incorporating multiple points of the recorded waveform.**
- **Bayesian Weighting (more significant to responses received with less noise).**
- Early latency tests.
- ASSR
- User & pre-programmed protocol.
- Digital Filter: Assists you to identify the clear peak.
- Highly reliable, accurate and fast results.

Features / Specifications:

- 2 channels.
- Integrated database.
- User & Pre-programmed protocols.
- Simultaneous recording of condensation rarefaction stimuli.
- Digital filter application (during and after test).
- Unlimited curve.

Technical Specifications

Pre-Amplifier:

- Two channels
- Gain: 80 dB/60 dB
- Frequency response: 0,5 - 5000 Hz
- Noise: $4\text{nV}/\sqrt{\text{Hz}}$. $0.22 \mu\text{V RMS}$ (0 – 3 kHz)
- CMR Ratio: Minimum > 118 dB. Typical 130 dB <100 Hz
- Radio Frequency Immunity: Typically 25 dB improvement over previous available designs
- Max input offset voltage: 2,5 V.
- Input impedance: 10 M Ω .

Impedance Check:

33 Hz rectangle.

Impedance information for each individual electrode.

No unplugging of electrode leads required.

Readout directly on amplifier.

Range: 0.5kohm to 25K ohm

Transducers :

Standard Ear-Tone ABR phones included.

Stimuli (Broadband):

CE-Chirp with cochlear delay compensation.

Stimulus Rate: 0.1 – 80.1 per sec.

Frequency specific Stimuli

Tone Burst:

Frequencies: Tone burst: Frequencies: .5kHz to 4kHz.

Envelopes: Blackman, Gaussian, Hanning, Hamming, Bartlett, Rectangle, and manual rise/plateau/fall.

CE-Chirp: 500Hz, 1kHz, 2kHz and 4kHz. Bandwidth +/- ½ octave

Intensities: 20 – 130dB peSPL in 1dB steps (0 – 100dB nHL in 1 dB steps)

Masking: White noise. 0 - -40dB relative to stimulus.

Weighting: Bayesian.

Recording

Number of channels: 2 channels

Number of curves per session: Unlimited.

Automatic Tests :

As many automatic tests as desired, may be designed by end user.

Partial manual control during automatic testing is available.

Data Acquisition:

Data acquisition: Analysis time: 0-900ms window. Acquisition start: +/- 2ms from stimulus onset.

A/D resolution: 16bit. Points per trace: 450 displayed

Gain:

Automatic: Before each new intensity is tested, the best suitable gain is automatically selected.

Manual: 6dB steps from 74dB to 104dB (10µV to 320µV)

Rejection: Selectable.

Raw EEG:

Displayed online.

Refresh rate: 10Hz typical

Filters:

Digital filtering for Low Pass and High Pass.

Patient communication:

Talk forward

Special Key Features of ASSR:

Pre-Amplifier:

- Two channels
- Gain: 80 dB/60 dB
- Frequency response: 0,5 - 5000 Hz

Impedance Check:

33 Hz rectangle.

Impedance information for each individual electrode.

No unplugging of electrode leads required.

Readout directly on amplifier.

Range: 0.5kohm to 25K ohm

Transducers :

Standard Ear-Tone ABR phones included.

Auditory transducers of 40 sets of electrode with colour coding.

Ear tip of infant, child, adult with ear tip adapter (20 box).

Stimulus Control:

- Independent control of up to 8 simultaneous stimuli (max. 4 per ear).
- Independent stimulus level control for each of the 8 stimuli, with dynamic range assistance.
- Independent start / stop control for each of the 8 stimuli.

Data Acquisition:

- 2 channels. Separate Detection Algorithm for each Channel.
- A/D resolution: 16bit. Manual Start and Stop: Global as well as for each stimulus.
- Time out limits: Max 15min. (Default: 6 min.). Manual change in +/- 1 min. steps.
- False Pass Probability Settings: 1% and 5%.
- Gain: Manual: 6dB steps from 74dB to 110dB (5 μ V to 320 μ V input).

ASSR Software Stimulus must have Specifications:

Up to eight simultaneous frequencies per ear.

Stimulus frequency range from 250 Hz to 8 kHz.

Intensity: 0-125 dB SPL in 1 dB increments.

User-defined repetition rates (modulation).

Output in SPL for easy calibration.

Contralateral masking.

User-modifiable, stimulus-specific SPL-to-HL conversion tables.

Advanced stimulus generation module included: Ability to specify amplitude modulation, frequency modulation, and ramping functions.

Ability to specify frequency specific transient stimuli including a wide variety of stimulus envelopes.

Must have stand alone Computer with specifications:

Windows (windows 7 or above) based computer and intel i7 processor.

Minimum 8GB RAM.

Minimum 500 GB available hard drive space.

Minimum XGA display (1024x768 screen resolution).

Two free USB ports.

Removable media, network drive, or secure internet storage site for data backup.

Should have key features:

Simultaneous, multi-frequency testing.

Fast start-up and testing.

Automated ASSR detection and threshold estimation for each frequency tested.

Pre-programmed multi-frequency stimuli.

Customizable protocols for automated user-defined data collection.

User-specified stimuli with Advanced Stimulus Generation Utility.

Adjustable artifact rejection level and time region.

Spectral analysis provides ASSR amplitude values for each frequency tested.

Activation of harmonic analysis feature further speeds up detection of responses.

Multiple graphical displays, including recording spectral analysis and ASSR waveforms.

Audiograms should be automatically generated with recordings from one or multiple sessions
Audiograms can be plotted in SPL or HL using a user modifiable SPL-to-HL correction table or regression equations.

Phase or plot shows the strength and repeatability of the steady state response.

Phase-Intensity graph illustrates latency-intensity function.

Calibration kit

Cleaning kit

Print reports to any Windows supported printer or directly to a PDF file.

Includes capability to export text files.

Easy data backup, retrieval, and management.

Built-in system calibration, self-check, and system diagnostics modules.

USB Plug-and-Play.

Neuprep preparation gel (120 grms) 4 box type

Conduction gel (120 grms) 4 box type

Adhesive tapes 10 no's

Easily upgradable

User manual and Service manual in CD and Hard copy to be provided in Tamil, English and Hindi languages.

Technical support or services to be provided as and when required.

Comprehensive AMC for 3 years after 02 years warranty period (Total cover:-05 Years)

Installation and Demonstration by the company along with an audiologist who holds an experience of two years and above handling the instrument.

Technical Specification

Computerized Clinical Audiometer with on board Free Field and VRA Testing Facility

- Channels** - Two Separate channels, with independent attenuators.
- Test Available :**
- Air Conduction : Frequency Range- **125 - 12000Hz**
Intensities - **-10 to 120dB**
 - Bone Conduction : Frequency Range - **250 – 8000Hz**
Intensities - **-10 to 80dB**
- Special Tests** - Stenger test, Free Field, T.D.T, SISI, ABLB, UCL,
Word Recognition, Visual Reinforcement Audiometry (VRA), Tinnitus Matching with Noise.
- Tone** - Continuous Tone.
Pulse Tone
Warble Tone
- Maximum Hearing Level** - Air -10 dB to 120 dB HL
(For SPL add 25.5 dB at 250 Hz)
Bone -10 dB to + 80 dB HL
Speech -10dB to + 100dB HL
Masking –10dB to + 100dB HL
- Attenuator** - Click free, 5 dB, (1dB & 2.5 dB on request)
- Masking** - Free as well as Synchronized Masking
Speech Noise
Narrow Band Masking

Presentation - Normal or inverse mode for all signals

External Inputs - Tape recorder, CD Player or Microphone

Accuracy of

Frequency - Better than 1%

→ **Microprocessor Controlled**

→ **SISI (Auto Calculation of Scores)**

→ **PC Interface for on line Communication.**

→ **Data storage facilities option unlimited with computer.**

→ **Software for patients with database.**

→ **Free Field Speakers and FF Amplifier complete with VRA Testing Facility must be made part of the Equipment.**

→ **VRA (Visual Reinforcement Audiometer) Device.**

User manual and Service manual in CD and Hard copy to be provided in Tamil, English and Hindi languages.

Technical support or services to be provided as and when required.

Comprehensive AMC for 3 years after 02 years warranty period (Total cover:-05 Years)

Installation and Demonstration by the company along with an audiologist who holds an experience of two years and above handling the instrument.

Software for Complete Acoustic Analysis for Speech

(a) and (b) FOR ASSESSMENT AND THERAPY OF SPEECH DISORDERS

The system should be a **stand-alone** * system for detailed assessment and therapy of

i) Voice

- Fo and intensity measure
- Jitter and shimmer measurements
- Harmonic to Noise Ratio (HNR)
- Long term average spectrum of speech
- Long term average Cepstrum
- Electroglottography (EGG)**
 - laryngeal or acoustic glottography (acoustic glottogram)
 - inverse filtering based on LP and/or formant based technique
- Spectrogram measurements (wide-band, narrow-band)
- Phonetogram
- Dysphonia Index
- S/Z ratio
- Maximum phonation duration
- Intensity control and pitch control options
- Intonation and accent training

ii) Articulation

- word articulation test
- specific program for fricatives, laterals, stops, discrimination and production

iii) Fluency

- Smooth air flow
- Prolongation
- Metronome
- Delayed auditory feedback
- Slide text

(c) ASSESSMENT OF NASALITY (Nasometer) *

Stand-alone instrument for evaluation of nasality

- Instrument should be non-invasive and provide real-time visual feedback of nasality with auditory feedback of patients speech production
- Should have headset device with microphones on the top and bottom of the plate to collect acoustic energy (nasal and oral) during speech
- Statistically provide the nasalance scores

(d) **FOR ASSESSMENT OF RESPIRATORY FUNCTION (Spirometer)**

Stand-alone instrument for evaluation of respiratory function

- Instrument should be able to assess lung volumes and capacities
- Should assess Forced vital capacity (FVC) and forced expiratory volumes (FEV 1, 2 and 3)
- Should have an inbuilt printer

(e) **PITCH PIPES**

Instrument should be able to produce sounds at different frequencies when blown

Obligatory Requirements with the Instruments

- Comprehensive AMC for 3 years after 02 years warranty period (Total cover:-05 Years)
- Antivirus for 5 years
- Manual in atleast 2 languages (English/Hindi/Tamil)
- Demonstration by an SLP who has a minimum of 2 years working experience with the instrument.

* Two desktop computer having capacity to execute all the software mentioned above and any other software desired to be loaded to support the software. It should be of highest configuration.

- Separate system should be provided
- for
 - (a) & (b) Assessment of speech disorder

And for

(b) Assessment of Nasality and respiratory functions.

(Total of 02Nos. Desktops)

Technical Specifications
Diagnostic Impedance Audiometer with facility of Wide Band
Tympanometry

Special Key Tests / Features:

- Tympanometry 226Hz Manual and Automatic
- Ipsilateral
- Contralateral
- Manual control of all reflex functions
- Reflex decay, automatic 10 dB above threshold or manually controlled with stimulus duration of 10 up to 30 seconds
- ETF 1 – Non-perforated eardrum (William’s test)
- Wideband absorbance
- Wideband 3D Tympanometry
- WB Frequency Range 226Hz to 8000Hz
- User customizable protocols

Level:

226 Hz: 85 dB SPL (\approx 69 dB HL)

WBT: 96 dB peSPL (infant) / 100 dB peSPL (adult).

Air pressure:

Control: Automatic.

Indicator: Measured value is displayed on the graphical display.

Range: -600 to +400 daPa.

Pressure limitation: -750 daPa and +550 daPa.

Compliance: Range:

0.1 to 8.0 ml at 226 Hz probe tone

Reflex Functions

Signal sources:

Tone - Contra, Reflex: 250, 500, 1000, 2000, 3000, 4000, 6000, 8000 Hz.

Tone - Ipsi, Reflex: 500, 1000, 2000, 3000, 4000 Hz.

NB noise - Contra, Reflex: 250, 500, 1000, 2000, 3000, 4000, 6000, 8000 Hz.

NB noise - Ipsi, Reflex: 1000, 2000, 3000, 4000 Hz.

Noise - Contra, Reflex: Wide Band, High Pass, Low Pass.

Noise - Ipsi, Reflex: Wide Band, High Pass, Low Pass.

Specifications in detail:

Standards: Safety: IEC 60601-1, Class I, Type B applied parts

EMC: IEC 60601-1-2
Impedance: IEC 60645-5 (2004)/ANSI S3.39 (2012), Type 1
Audiometer: IEC60645-1 (2012)/ANSI S3.6 (2010), Type 4
PC control: USB: Input/output for computer communication.
Data save option on the PC .
Bluetooth Thermal printer
Print on command via USB Power

Impedance Measuring System:

Probe tone: Frequency: Level: 226 Hz, 678 Hz, 800 Hz, 1000 Hz;
Pure tones; $\pm 1\%$ 85 dB SPL (≈ 69 dB HL) ± 1.5 dB
Air pressure: Control: Automatic
Indicator: Measured value is displayed on the graphical display.
Range: -600 to +400 daPa. $\pm 5\%$
Pressure limitation: -750 daPa and +550 daPa
Pump Speed: Automatic, Fast 300 daPa/s, Medium 200 daPa/s, Slow 100 daPa/s, Very slow 50 daPa/s.
Compliance: Range: 0.1 to 8.0 ml at 226 Hz probe tone (Ear volume: 0.1 to 8.0 ml) and 0.1 to 15 mmho at 678, 800 and 1000 Hz probe tone. All $\pm 5\%$
Test types: Tympanometry Automatic, where the start and stop pressure can be user-programmed in the setup function.
Manual control of all functions.

Eustachian tube function:

Williams test,
Toynbee test ,
Patulous Eustachian tube Continuous sensitive impedance measurement

Reflex Functions Signal sources:

Tone - Contra, Reflex: 250, 500, 1000, 2000, 3000, 4000, 6000, 8000 Hz, wide Band, High and Low pass
Tone - Ipsi, Reflex: 500, 1000, 2000, 3000, 4000 Hz wide band, high and low pass.
NB noise – Contra, Reflex 250, 500, 1000, 2000, 3000, 4000, 6000, 8000 Hz
NB noise – Ipsi, Reflex 1000, 2000, 3000, 4000 Hz
Stimulus duration: 750 ms
Reflex Acceptance Adjustable between 2% and 6%, or 0.05 – 0.15 ml change of ear canal volume
Intervals Down to 1 dB step size
Intensity max 90, 100, 120 dBHL

Outputs:

Insert, circumaural ear phones and probe ear phone in co-operated. (2 no's)

Test types: manual and automated

Calibration kit

Cleaning kit

Audiometer Functions Signals:

Frequencies Hz (Intensities dB HL): 125 (-10 to 70), 250 (-10 to 90), 500 (-10 to 100), 1000 (-10 to 100), 2000 (-10 to 100), 3000 (-10 to 100), 4000 (-10 to 100), 6000 (-10 to 100), 8000 (-10 to 90).

Test types Auto Threshold Determination (Modified Hughson Westlake).

Auto testing: duration 1-2 s adjusted in 0.1 s intervals

Must provide :

- User manual and Service manual in CD and Hard copy to be provided in Tamil, English and Hindi languages.
- Technical support or services to be provided as and when required.
- Comprehensive AMC for 3 years after 02 years warranty period (Total cover:-05 Years)
- Installation and Demonstration by the company along with an audiologist who holds an experience of two years and above handling the instrument.

Appendix “G”

Fonix-8000 Hearing Aid Testing System (with facilities to test EAC in ISI and ANSI Standards)

Description	Yes/No
<p>FONIX 8000 Module Includes one of the following test sequences: ANSI 09/03/96/87</p>	
<p>8120 polar plot chamber Includes M1958E coupler microphone, magnetic HA-1, HA-2, and CIC couplers, ear level adapter, auto detecting battery simulator pills (#13, #675, #10 and #312), rotator accessories for BTE and ITE directional tests, blue stik, extra paper, USB computer cable, and removable test surface.</p>	
<p>Real-Ear for FONIX 8000 HEARING AID TEST SYSTEM Probe microphone (M767) with an advanced integrated ear hook design, sound field speaker, a floor stand, Visible Speech, Improved Digital Speech signal for testing open fit hearing aids with probe remote module, monitor headset, calibration adapters, probe tubes, and marking pen, Same as above with additional M767 microphone for Dual probe.</p>	
<p>Computer Programs(Latest version in all softwares)</p>	
<p>FONIX NOAH Real-ear Module</p>	
<p>WINCHAP</p>	
<p>FONIX Press & Go</p>	
<p>FONIX Troubleshooter</p>	
<p>Android Remote Keyboard: Includes Android tablet and pre-installed FONIX 8000 Keyboard App.</p>	
<p>Includes insert earphone with assortment of ear tips.</p>	
<p>LCD Monitor 17in.</p>	
<p>Hearing instrument programming cable (HiPro cable), 6ft.</p>	
<p>Demonstration Ear with stand</p>	
<p>Infant/Child Headband Package including infant, child, and adult headbands, six bendable earhooks, and two sets of <i>animal ears</i>.</p>	
<p>RIC Magnetic Coupler Package (for the 8120), SB-1 2-</p>	

cc Magnetic Coupler for universal-fit hearing aids, 9-11mm dia., Eartip, Sebotek 9mm, package of 5	
SB-1 2-cc Magnetic Coupler for universal-fit hearing aids, 9-11mm dia.	
Adapter 14 mm to 1 in. (for sound level calibrators)	
Ear Level Adapter	
Open Fit coupler	
Rectangular reference microphone adapter	
Paper roll - 5 nos	
Probe tubes, package of 25	
Insert earphone accessories	
Package of 50 medium eartips - 3packet	
Package of 50 small eartips	
Package of 24 large eartips	
Sound tube replacement - 5nos	
Nipple for sound tube - 10 nos.	
Dry erase marker - 2 nos	
Blue Adhesive Putty - 10 pack	
Probe adapter, 14mm to probe	
8000 Operator's Manual In English, Hindi and Tamil	
8000 Maintenance Manual In English, Hindi and Tamil	
Comprehensive AMC for 3 years after 02 years warranty period (Total cover:-05 Years)	
Ensure demonstration at NIEPMD : Each function as mentioned in the list above by an audiologist who has clinically used the instrument for at least two year, following which the installation would be considered complete.	
Manual in English / Hindi / Tamil	

Screen OAE & ABR Combo

Screening OAE and ABR technical specification

ABR:

Stimulus CE-Chirp®
Test mode monaural or binaural, Level;35 dB nHL

OAE:

Stimulus Level
DPOAE 65/55 dB SPL
F2 Frequencies 2.0, 3.0, 4.0 and 5.0 kHz
Pass Criteria 3 out of 4 bands, min 4 dB SNR, min -5 dB SPL OAE level
Test duration DPOAE 4 s to 60 s

Interfaces

Probe connector compatible with probes (8 pin)
Charging/Data connector - connects to PSU (charging) or to PC USB port (USB 1.1 or 2.0) via Data Cable, Bluetooth wireless print, RFID reader,

Indicators Data Display

Resolution: QVGA (320 x 240 pixels), 166 dpi
Technology: Colour LCD, 16 bit (displaying 65K colours)
Viewable Area: 46.5mm x 36.5mm and above
Backlight: White - intelligent control
Probe fit: Noise : LED colour indication
Stimulus : LED colour indication
Power/Charge: Power: LED colour indication
Fast charge: LED colour indication

Audible: Wide range speaker providing audio feedback of status

Keypad :19 key alphanumeric with cursor control and soft keys

Clock/Calendar Internal Real Time Clock/Calendar operated upto 2099

Hardware Options

Bluetooth wireless printing
Barcode scanner
RFID reader

Hardware processing and storage

Embedded microcontroller plus dedicated hardware DSP engine 4GB of non-volatile memory for storing programs, configuration, patient details and test results

User manual and Service manual in CD and Hard copy to be provided in Tamil, English and Hindi languages.

Technical support or services to be provided as and when required.

Comprehensive AMC for 3 years after 02 years warranty period (Total cover:-05 Years)

Installation and Demonstration by the company along with an audiologist who holds an experience of two years and above handling the instrument.

ABR Diagnostic

Technical Specification: dual channel Auditory Brainstem Response Audiometer

Equipment should have Facility to perform ecoch-G, ABR, LLR, MLR, MMN, P300

- Power supply of 220 V AC, 50 Hz along with rechargeable inbuilt battery operated, Chargeable through direct power and or USB. Should work on AC & DC
- Light weight and portable
- Test battery of both screening and diagnostic mode with customized test protocol
- Facility to carry out both AC and BC testing
- Automatic testing and pass refer criteria in screening mode
- Automatic and manual electrode Impedance level indicator
- Facility for user login with password protection
- Instruction/user manual & Service manual
- Waveform view of both right and left in same page with easy printing in different color code
- Gold cup electrodes with different colors (20 electrodes)
- Nuprep preparation gel 4 Oz (114 grams) – 02 Nos. (Box type)
- Ten 20 conduction gel 4 Oz (114 grams) – 02 Nos. (Box type)
- TM perforated adhesive tapes – 05 Nos.
- Ear tips for infants, Children and adults with ear tip adaptors (02 boxes)
- Cleaning kit
- Calibration kit
- Facility to upgrade the software to higher version with expanding additional modules

ABR OPERATING SPECIFICATIONS

- Stimulus types: Clicks, tone burst (500 to 8000 Hz) of different window, Filtered Click, Chirps and External stimuli.
- Stimulus Polarity: Rarefaction, Condensation and Alternating
- Stimulus Rate: 0.1 to 180/s
- Stimulus Intensity: 0 to 100dB in 5dB steps for diagnostic mode and any 03 intensity – manual selection for screening Mode
- Masking facility: Contra lateral masking - Narrow band noise & wide band noise
- Time window: 0 to 800 ms
- Transducers: Insert Earphones with fitting of ear probe and also with reusable ear cup/Hug; Compatible headphones preferably light weighted, easy to use in newborns and noise occluding type; Bone vibrator
- Input Frequency Range: 30 Hz to 3000 Hz and notch filter of 50/60 Hz
- Amplifier – gains/Sensitivity: variable
- Facility of adjusting Noise rejection level
- Automatic signal-to-noise ratio and residual noise calculations
- Automated Pass criteria in screening mode: ABR Fsp

- Facility to change rise time, Fall time, plateau and envelopes manually

Computer specification:

Processor : i7 intel processor
Speed : 3.5 Ghz
RAM : 8 GB
Type : DDR 3
HDD : 1 TB
Screen Size : 32 INCHES

3 IN ONE system with built in HDMI Port, Ethernet Port, WiFi , Speakers, USB 3.0 ports (minimum 2), Bluetooth, Digital Media Reader Battery, OS, MS office, warranty for years, system security (anti virus), user manual.

Should posses:

- **CE-CHIRP**
- **Fmp – incorporating multiple points of the recorded waveform.**
- **Bayesian Weighting (more significant to responses received with less noise).**
- Early latency tests,
- User & pre-programmed protocol.
- Digital Filter: Assists you to identify the clear peak.

Should provide:

User manual and Service manual in CD and Hard copy to be provided in Tamil, English and Hindi languages.

Technical support or services to be provided as and when required.

Comprehensive AMC for 3 years after 02 years warranty period (Total cover:-05 Years)
Installation and Demonstration by the company along with an audiologist who holds an experience of two years and above handling the instrument.

Screening Audiometer (portable):

TECHNICAL SPECIFICATION:

Features:

Input

Tone, Speech, noise

Built in & Ext. Mike

Output

Left, Right, Bone Left, Bone Right

Freq.

Air (-20 db to 120 db) 250 Hz to 8 KHz - 5 db Step Bone (-20 db to 80 db) 250 Hz to 6 KHz. - 5 db Step

Masking

Wide band - 10 db Step, 100 db Max Tests

Tones

Pure tone, Speech, Tone Decay (counter) Tone - Continuous & Pulse Screen - L.C.D. (With Contrast Control)

Head Phone

DR 59/ (TDH 39/49 Optional) Bone - B-71 Radio ear Indication - V.U.Meter for Speech Voltage

AC 230/50 Hz., DC 12V (1A)

Operation Weight

3.5 Kg. (With Shoulder Bag)

Connectivity- Direct Printer & PC computer interface Complete Data Storage up to 500 Patients

Manual: Hard Copy- Bilingual (English/ Tamil/Hindi)

User manual and Service manual in CD and Hard copy to be provided in Tamil, English and Hindi languages.

Technical support or services to be provided as and when required.

Comprehensive AMC for 3 years after 02 years warranty period (Total cover:-05 Years)
Installation and Demonstration by the company along with an audiologist who holds an experience of two years and above handling the instrument.

Paediatric Audiometer

Paediatric Audiometer technical specifications

Key features:

- One hand operation
- silent presentation buttons and a variety of light and sound stimuli.
- White noise stimulus for improved sensitivity
- Warble Tone
- Narrow Band Noise
- Flashing Light Stimulation
- TDH39 Audiometric Headphone
- Robust, Lightweight
- Standard AA Batteries
- Automatic Battery Switch / Indication
- **Controlled Tones & Attenuation Testing of Children from the age of three months Can also be used for adults for Quick-Check**

Tests

- **Conditioned Orientation Response (COR)**
- **Visual Reinforcement Audiometry (VRA)**
- **Auopalpebral Reflex (APR)**
-

Should possess:

- User manual and Service manual in CD and Hard copy to be provided in Tamil, English and Hindi languages.
- Technical support or services to be provided as and when required.
- Comprehensive AMC for 3 years after 02 years warranty period (Total cover:-05 Years)
- Installation and Demonstration by the company along with an audiologist who holds an experience of two years and above handling the instrument.

Hi-Pro-2
Technical Specification

PC Interface:

Communication: USB 2.0 full speed (USB 1.1 compatible)

USB Connector Type: “Type B” connector (on the HI-PRO 2 unit)

Power Supply:

The HI-PRO 2 unit is powered from the PC USB port

Operating systems:

Windows XP Pro SP3, Windows 7 (32 and 64 bit)

Windows 8 (32 and 64 bit)

Technical specification for integrated desktop computer /Laptop

Processor : Intel core i5 5th gen

Optical drive super multi DVD +/- RW with double layer support

Ethernet : 10/100 /1G LAN

Sound cord: intel high definition audio 2.0

Ports : USB

Optical mouse

Operating system windows 8

Display size : 15 inches wide TFT

RAM 4 GB DDR

HARD drive

Should posses:

- User manual and Service manual in CD and Hard copy to be provided in Tamil, English and Hindi languages.
- Technical support or services to be provided as and when required.
- Comprehensive AMC for 3 years after 02 years warranty period (Total cover:-05 Years)
- Installation and Demonstration by the company along with an audiologist who holds an experience of two years and above handling the instrument.

Format of Arbitration Clause-Indigenous Private bidders

- (i) All disputes of differences arising out of or in connection with the present contract including the one connected with the validity of the present contract or any part thereof, should be settled by bilateral discussions.
- (ii) Any dispute, disagreement of question arising out of or relating to this contract or relating to construction or performance (except as to any matter the decision or determination whereof is provided for by those conditions}, which cannot be settled amicably, shall within sixty (60) days or such longer period as may be mutually agreed upon, from the date on which either party informs the other in writing by a notice that such dispute, disagreement or question exists, will be referred to a sole Arbitrator.
- (iii) Within (60) days of the receipt of the said notice, an arbitrator shall be nominated in writing by the authority agreed upon by the parties.
- (iv) The sole Arbitrator shall have its seal in Chennai or such other place in India as may be mutually agreed to between the parties.
- (v) The arbitration proceedings shall be conducted under the Indian Arbitration and Conciliation Act, 1996 and the award of such Arbitration Tribunal shall be enforceable in Indian Courts only.
- (vi) Each party shall bear its own cost of preparing and presenting its case. The cost of arbitration including the fees and expenses shall be shared equally by the parties, unless otherwise awarded by the sole arbitrator.
- (vii) The parties shall continue to perform their respective obligations under this contract during the pendency of the arbitration proceedings except in so far as such obligations are the subject matter of the said arbitration proceedings-

(Note: In the event of the parties deciding to refer the dispute/s for

adjudication-to an Arbitral Tribunal then one arbitrator each will be appointed by each party and the case will be referred to the Indian Council of Arbitration (ICADR) for nomination of the third arbitrator. The fees of the arbitrator appointed by the parties shall be borne by each party and the fees of the third arbitrator, if appointed, shall be equally shared by the Customer and Contractor.

