# Tender Conditions and procedure to be abided by the tenderers

### 1. INTRODUCTION

1.1. This tender is for procurement of the following equipments for Annamalai University, Annamalainagar, Chidambaram, India.

		Department of Sports So	ciences, Annar	nalai Un	iversity
File No. AU/ GUCC/ MYAS/ DSS/Equip/ Tender/ 2018-2019					er/ 2018-2019
S.NO	Name of	the instrument	NO of units		EMD amount
					Rs.
1/.	Metabolic	Gas Analyzer	(one unit value) 2		1.40,000
2.	BOD POD	)		1	1,40,000,
3.	Lactate Ar	nalyser	1		1,400
4.	Cardio Pul	monary Exercise Testing Machine		1	60,000
5.	Wingate E	rgometer for Lower Body		1	24,000
6.	Wingate E	rgometer for Upper Body		1	14,000
7.	7. Wireless Sports Timing and Jump measuring system		Timing gates	04	24,000
			Android Tablet	01	
			Smart hub	02	
			Jump mat	01	
8.	IsoKineti	c Machine			1,20,000

The specification for the above mentioned equipments is given in Schedule A.

**1.2. Applicability of Tamil Nadu Transparency in Tenders Act and Rules:** This tender will be governed by the Tamil Nadu Transparency in Tenders Act 1998 and Rules 2000 as amended from time to time.

### 2. ELIGIBILITY CRITERIA

- **2.1.** A tenderer will be eligible for tendering only if he satisfies the eligibility criteria as given below:
  - a) A tenderer should be a manufacturer possessing a valid manufacturing license from the competent authority for manufacturing the items quoted and should have at least three years' experience. (Documentary evidence to be furnished)
  - b) The manufacturer should be an ISO:9001 / Equivalent certified company. Documentary evidence should be enclosed.

- c) Authorized Dealer / Distributor / Supplier can also bid with authorization from the Manufacturer. (Documentary evidence to be furnished). A manufacturer shall not authorize more than one dealer / distributor for participating in this tender.
- d) In case a tenderer is participating as an authorized Dealer/Distributor/Supplier the manufacturer of the item should satisfy the conditions mentioned at (a) and (b) above.
- e) The tenderer should have a Tamil Nadu Value Added Tax Registration / Central Sales Tax Registration. Copy of the Registration Certificate should be enclosed.
- F) The Tenderer should be an Income Tax assesse. (Return filed should be enclosed)
- **2.2**. The tenderer should not have been blacklisted or debarred from participating in tenders by any Central / State Government agencies or autonomous bodies or universities/ institutions. (An undertaking to this effect should be furnished)
- **2.3**. The tenderer submitting their offer must have supplied similar items to other Universities or institutions or Government agencies. Copies of such order must be enclosed with the offer.

### 3. COST OF TENDERING

The Tenderer shall bear all costs associated with the preparation and submission of this Tender and the tender inviting authority will in no way be responsible or liable for these costs.

The Tenderer may also down load the application format from University Web Site all free of cost.

### 3.1 Cost of Tender Document:

The cost of the tender document is Rs.. 2100/- including 5% VAT. The demand draft should be in favour of "The Registrar, Annamalai University" payable at Annamalainagar or Chidambaram.

### 4. GENERAL INSTRUCTIONS

**4.1.** The tenderers are requested to go through the instructions, terms and conditions and specifications given in the tender. Failure to furnish all required information in every aspect will be at the tenderer's risk and may result in the rejection of the tender.

For any queries tenderer may contact **Registrar**, **Annamalai University**, **Annamalainagar**, **Chidambaram** – 608 002. **Tamil Nadu**, **INDIA**.

### 4.2. Clarification on the tender

A prospective tenderer requiring any clarification on the tender may request the Office of the Registrar, Annamalai University by a letter or by fax. Registrar, Annamalai University will respond in writing to any request for clarification in the tender.

#### 4.3. Amendments to the Tender

- i. Tender Inviting Authority may amend the tender wherever it is felt that such an amendment is absolutely necessary.
- Amendment to tender may also be given in response to ii. clarifications by prospective tenderers and it is solely the discretion of the Tender Inviting Authority. Any amendment tender will be uploaded on the website http://www.annamalaiuniversity.ac.in. It is the responsibility of the tenderer to verify the amendments if any and get the amendment documents before the submission of the tender provided no such change could be effected 48 hours prior to the time fixed for opening of the tender.
- **4.4.** The **Tender document is not transferable** under any circumstances.

### 5. EARNEST MONEY DEPOSIT (EMD)

**5.1.** The tenderer should furnish **Earnest Money Deposit (EMD) as detailed below** along with the tender by way of Demand Draft/Bankers cheque obtained from any Nationalized/ Scheduled Bank and drawn in favour of "The Registrar, Annamalai University" payable at Annamalainagar or Chidambaram.

		Department of Sports	Sciences, Ani	namalai	Un	iversity
		AS/ DSS/Equip/ Tender/ 2018-2019			2018-2019	
S.NO	Name of	the instrument	NO of units			EMD amount
						Rs.
1/.	Metabolic	Gas Analyzer	(one unit value) 2			1.40,000
2.	BOD POD	)	1			1,40,000,
3.	Lactate Ar	nalyser		1		1,400
4.	Cardio Pul	monary Exercise Testing Machine		1		60,000
5.	Wingate E	rgometer for Lower Body		1		24,000
6.	Wingate E	rgometer for Upper Body		1		14,000
7.	7. Wireless Sports Timing and Jump measuring system		Timing gates	04		24,000
			Android Tablet	01		
			Smart hub	02		
				01		
8.	Isokinetic	Machine				1,20,000

- **5.2.** Any tender without required EMD will be considered as NON-RESPONSIVE and will be SUMMARILY REJECTED.
- **5.3.** The Tender Inviting Authority will arrange to refund the Earnest Money Deposit to the unsuccessful tenderers after publishing the list of successful tenderers, within a reasonable time.
- **5.4.** No interest will be paid on the EMD.
- **5.5.** The EMD is liable to be forfeited if:
  - i. The Tenderer withdraws his tender at any stage after the last date and time fixed for submitting the tender.
  - ii. The Tenderer on becoming successful, fails to furnish the required security deposit or sign the agreement, within the stipulated time limit.

### 6. PERFORMANCE SECURITY:

- i.) Successful tenderer has to furnish Security Deposit equivalent to 5% of the tendered value either in form of Demand Draft drawn in favour of "Registrar, Annamalai University" or in form of irrevocable bank guarantee obtained from any Nationalized/Scheduled bank.
- ii.) The EMD of the Successful Bidder will be adjusted towards Security Deposit (SD). Security Deposit will be released only after the expiry of the warranty period as mentioned in clause 8.5.

### 7. SUBMISSION OF TENDER:

### 7.1. Due Date for Tender Submission

- i. The tender document duly filled in, signed on all pages shall be submitted in sealed cover to **the Registrar**, **Annamalai University at his office up to 10.30 AM** on **26.11.2018** as per the procedure laid down herein. The tender can be submitted on all working days up to the above closing date. In the event of this day being declared as a holiday, the tenders can be submitted up to 3.00 P.M. on the following working day.
- ii. The tender inviting authority will not be held responsible for any delay in the receipt of the Bank Draft or any delay in the receipt of the document by the tenderer including loss of the document in transit or delay in obtaining any document / certificate or on any other account. No extension of the date and time for the submission of the documents will be given for any such delay.
- iii. The tender inviting authority may extend the due date for submission of tender by issuing an amendment in which case all the rights and obligations of the Tender Inviting Authority and the Tenderers previously subject to the original due date for submission will then be subject to the new date for submission.
- iv. Any tender received by the Tender Inviting Authority after the due date and time will not be considered and will be returned to the tenderer.

### 7.2. Procedure for Submission of Tender

- i. Tenderers are advised to go through the tender documents and understand all the provisions and stipulations contained therein before submitting the tender.
- ii. The tender shall be submitted as per the procedures and requirements stipulated herein.
- iii. Tender submitted by telex, cable or fax will not be accepted and will be summarily rejected.
- iv. The Commercial bid should be neatly typed. Hand written offers will be rejected. Any deviation in the offer shall lead to rejection.
- v. The tenderer who are supplying imported material, must be registered with the Competent Authority/Department of the Government of India.
- vi. The purchaser shall not be responsible for any postal delay in receipt of the offer. Any bid received by the Purchaser which does not fulfil the desired terms and conditions shall be rejected out rightly and no communication in this regard shall be sent. Delayed/Late bids will not be accepted, at any circumstances.
- vii. All the bids will be opened in the presence of bidders representatives, who, chose to attend the same as per the date and time specified in the Tender Document.
- viii. This tender is based on two-cover systems i.e. Technical bid and price bid. Therefore the tender shall be submitted in two parts viz. Cover A and Cover B. Each part shall be placed in an independent sealed envelope and shall be super scribed as follows

Cover-A	:	"TECHNICAL BID COVER"
"TENDER	FOR	SUPPLY OF
<b>EQUIPME</b>	NT TO	O ANNAMALAI UNIVERSITY"
TENDER 1	NUME	ER:

Cover-B	:	"PRICE	BID COVER"
"TENDER I	FOR	SUPPLY	OF

### **EQUIPMENT TO ANNAMALAI UNIVERSITY"**

### **TENDER NUMBER:**

The contents of each of the two covers shall be as described in the subsequent clauses. For all other references, these covers will be referred to briefly as "Technical Bid Cover" and "Price Bid Cover".

ix. Both the covers i.e. Cover-A and Cover-B, shall be placed inside an outer cover and shall be super scribed as follows:

"TENDER FOR SUPPLY OF \_\_\_\_\_ EQUIPMENT"

### **TENDER NUMBER:**

x. The sealed tender envelope shall be addressed to

The Registrar,
Annamalai University,
Annamalainagar,
Chidambaram-608 002, Tamil Nadu, India

- xi. The tender envelope shall carry the name and address of the Tenderer prominently with Phone No. / email ID / and FAX No.
- xii. The **Technical Bid Cover** (**Cover-A**) shall contain the following as per the sequence indicated below.

1.	Earnest Money Deposit (EMD) of as per clause-5 of the Tender document.		
2.	Application form for supply of equipment as per Appendix-1		
3.	Documentary evidence for payment of income tax (latest income tax return should be furnished)		
4.	Letter of Tender as per Appendix-2		
5.	Documentary evidence for registration under Tamil Nadu Value Added Tax / Central Sales Tax.		
6.	Documentary evidence for ISO:9001 / equivalent certified company		
7.	A copy of Manufacturing license/Registration Certificate		

- Authorization from Manufacturer in case of Authorized Dealers/Distributors/Supplier
   Documentary evidence of supplying similar items to other Universities/Institutions/Govt. agencies.
   In addition to the above any document or certificates etc., mentioned anywhere in the tender document shall also be a part of the technical tender requirements.
- xiii. The **PRICE BID COVER** (**Cover-B**) shall contain the Price Bid as per the format given in Appendix-3.

The tenderer shall not carry out any alteration in the format prescribed for Price Bid. The tenderer shall not enclose any other document or statement that will influence the price. In such an event, the tender inviting authority shall summarily reject the tender.

### 7.3. Signing of the Tender

The tender shall be signed by a person or persons duly authorized to sign on behalf of the Tenderer. All pages of the tender shall be signed by the person or persons signing the tender. The tenderer shall enclose a certified copy of the power of attorney authorizing the signatory or signatories to sign the tender document. This certification shall be from the Managing Director or the Legal Manager of the firm.

The tender shall contain no alterations or additions, except those to comply with instructions issued by the Tender Inviting Authority, or as necessary to correct errors made by the tenderer, in which case such corrections shall be signed by the person or persons signing the tender.

All the pages in the tender document should be signed by the tenderer, after filling the prices in figures & words.

### 8. GENERAL TERMS AND CONDITIONS

### 8.1. DELIVERY SCHEDULE:

The Price Quoted should be FOR CHIDAMBARAMMaterials should be door delivered at Annamalai University, Annamalainagar, Chidambaram, Tamilnadu.

- Delivery must be made within a period of 45 days from the issue the order either directly or through their dealer network unless otherwise specified.
- ii. If the supplier fails to deliver the equipment ordered within the allotted delivery period as specified above, the Purchaser may procure goods or services similar to those un-delivered upon such terms and in such manner as it deems appropriate from any other firm at the risk and cost of the supplier.

#### **8.2 PAYMENT TERMS:**

- i. Payment will be made within 30 days from the date of delivery, installations, commissioning and demonstration of the equipment and acceptance by concerned Department/ Section.
- ii. Payment shall be made by Cheque or such other mode/ electronic fund transfer offered by the Bank.8.3 Taxes& Duties:
  - i. As per Govt. Notification No.10/97-CE dated 1<sup>st</sup> March 1997, Annamalai University, Chidambaram is exempted from Excise Duty for SCIENTIFIC / TECHNICAL INSTRUMENTS WHICH ARE USED FOR RESEARCH PURPOSE ONLY. The University shall provide all the documents under this notification to enable supplier to clear the goods without payment of excise duty, whenever required. Supplier should state clearly that this certificate is required.
  - ii. As per Govt. of India Notification 51/96 Customs dated 23<sup>rd</sup> July 1996, Annamalai University, Chidambaram is exempted from Custom duty for all research equipment. The University shall provide all the documents under this notification to enable supplier to clear the goods without payment of Custom duty,

- whenever required. Supplier should state clearly that this certificate is required.
- iii. CST/VAT will be charged as applicable. Any statutory variation will be paid to supplier on documentary evidence. Supplier should clearly indicate the percentage of CST/VAT applicable.
- iv. Clearing forwarding charges should also be mentioned

### 8.4 Loss, Damage & shortage:

Annamalai University shall not be responsible for any loss, damages and shortage during transit. Payment shall be made for the material received in good condition only.

### 8.5 Warranty

The equipment supplied under the contract shall carry a warranty for at least Two years. Supplier shall extend free maintenance service during the warranty period.

### 8.6 Commissioning and Demonstration

The Supplier shall be responsible for commissioning of the equipment. Supplier should also arrange for demonstration of the equipment to the Staff of the University.

### 8.7 Annual Maintenance

The University reserves the right to entrust Annual Maintenance of the equipment supplied under this tender to the concerned supplier. Therefore the tenderer shall mention the annual maintenance charges AMC/SMC in the price schedule. Tenderer should also give a brief write up about the services to be covered under Annual Maintenance charges quoted by him.

### 8.8 General:

The acceptance of the offer will rest with the Annamalai University who reserves the right to reject/accept partially or wholly the tenders received, without assigning any reason.

- i. Mere submission of tender/ proposal does not imply acceptance of the same at this end and the firms will be finalised only after meeting the laid down qualifying parameters for which decision of the Tender Inviting Authority / Tender Accepting Authority shall be final and binding on the parties.
- ii. Printed terms and conditions of the applicant on their quotation Form/ Literature/ Letter etc. if any, will not be binding on the University.

### 8.9 Liquidated Damages:

Timely delivery is essence of the contract and hence should any consignment be delayed, liquidated damages at the rate 0.5% of the value of the delayed consignment, for each week or part there of shall be levied and recovered subject to maximum of 5% of total order value.

### 8.10 Acceptance / Rejection:

The Tender Accepting Authority reserves the right to accept a quotation in part or in full or to reject all quotations or any of the quotations received, for non-compliance of any of the above items, conditions or instructions or for any other reason without assigning any reason thereof.

### 9.1. TENDER OPENING

- i. Tender will be opened in the presence of the tenderers or their authorized representative who choose to be present and the tender scrutiny committee at 11.00 P.M. on 26\_.11 .2018. The representative of tenderer who attend the tender opening must produce their identification proof and authorization letter from the companies / tenderer.
- ii. In the event of the specified date of Tender opening being declared a holiday, the tenders will be opened at the same time on the next working day.

- iii. Cover-A containing "Technical Bid" shall be opened first.
- iv. On opening the tender, the details such as name of the tenderer, address, EMD details, etc., will be read out.
- v. Tenders found without the EMD or with an invalid EMD or insufficient EMD, will be summarily rejected. Unopened tenders will be returned to such tenderers.
- vi. On verifying the EMD, the Technical bids will be examined to decide their service suitability for the said work. Tenderers whose Technical bids are not found acceptable will be advised of the same and their sealed covers containing the respective Financial Bids will not be opened. Their EMD will also be returned to them.
- vii. Price bids of only those tenderers whose Technical bids are substantively responsive, will be opened.

### 9.2. Process to be Confidential

- i. Information relating to the examination, clarification, evaluation and comparison of tenders and recommendations for the award of contract shall not be disclosed to tenderers or any other persons not officially concerned with such process until the award to the successful tenderer has been announced.
- ii. Any effort by a tenderer to influence the tender accepting authority, scrutiny / evaluation committee or its members in the processing of tenders or award decisions may result in the rejection of his tender.

## 9.3. Criteria for Technical Evaluation (Evaluation of Technical Bid)

 The tender accepting authority will determine whether the tenderer has fulfilled all the tender conditions as stipulated in the tender document and whether the tender is substantially responsive or not.

- ii. A responsive tender is one which conforms to all the terms, conditions and specifications of the tender documents without material deviation or reservation. A material deviation or reservation is one:
  - a) Which affects in any substantial way the scope, quality or performance of the contract.
  - b) Which is a substantial way is inconsistent with the Tender conditions, the tender accepting authority's rights or the Tenderers obligations under the Contract, or
  - c) Whose rectification would affect unfairly the competitive position of other Tenderers presenting substantively responsive Tenders.
- iii. Tenderers who have not fulfilled the tender conditions shall be a non-responsive tender and will not be taken up for further evaluation and Price Bid opening.
- iv. To assist the examination, evaluation and comparison of Tenders, the tender accepting authority may at its discretion, ask any tenderer for clarification on his Tender. The request for clarification and the response shall be in writing or by fax but no change in the substance of the Tender shall be so sought, offered, or permitted
- v. When a tender fails to be responsive, it will be rejected by the tender accepting authority and may not subsequently be made responsive by correction or addition / withdrawal of the non-conforming deviation or reservation.

### 9.4. Price Bid Opening and Evaluation of Price Bid

i) The Tender inviting Authority will then proceed with opening of **Cover-B**, i.e., "PRICE BID COVER" of those tenderers whose technical bid has been found substantively responsive. The opening of the "**Price Bid cover**" will be done in the presence of those tenderers or their representatives who choose to be

present. The Tender Inviting Authority will inform such tenderers in advance about the acceptance of their technical tender and the date and time of opening of the "Price Bid Cover".

- ii. The tender will be evaluated based on the prices offered by the tenders for the concerned equipments.
- iii. The tender who has bid the lowest evaluated price will be determined considering the following factors:
  - a) the quoted price shall be corrected for arithmetical errors;
  - b) in cases of discrepancy between the prices quoted in words and in figures, lower of the two shall be considered;
- iv. The evaluation shall include all central duties such as customs duty and central excise duty and sales tax as a part of the price, as detailed below:
  - a) In evaluation of the price of an imported item, the price has to be determined inclusive of the customs duty;
  - b) In evaluation of the price of articles which are subject to excise duty, the price has to be determined inclusive of such excise duty.
  - c) In a tender where all the tenderers are from within the State of Tamil Nadu, or where all the tenderers are from outside the State of Tamil Nadu, the (Value Added Tax) shall be included for the evaluation of the price; and
  - d) In a tender where the tenderers are both from the State of Tamil Nadu as well as from outside the State of Tamil Nadu, [the Value Added Tax levied under Tamil Nadu Value Added Tax Act, 2006 (Tamil Nadu Act 32 of 2006)] shall be excluded for the evaluation of the price.)
  - v. Annual Maintenance charges will not be included while evaluating the tender.

### 10. AWARD OF TENDER

**10.1.** The award of the tender shall be made strictly in accordance with the "Tamil Nadu Transparency in Tenders Act 1998 and Rules 2000 and no deviation will be made.

**10.2.** Notwithstanding anything that is said herein, the Tender Accepting Authority reserves the right to accept or reject any tender or all tenders, and to cancel the tendering process and reject all tenders, at any time prior to the award of tender, without thereby incurring any liability to the affected tenderer or tenderers or any obligation to inform the affected tenderer or tenderers on the grounds for the tender accepting authority's action.

### 11. NOTIFICATION OF AWARD

**11.1** The tenderer whose tender has been accepted will be notified by the Tender Accepting Authority, in writing.

**11.2.** Upon furnishing the security deposit by the successful tenderer or tenderers and upon signing the Agreement (Appendix-4), the EMD will be returned to the unsuccessful tenderer within a reasonable time period.

### 12. DISPUTES AND JURISDICTION:

Any legal disputes arising out of any breach of contract pertaining to this tender process shall be settled in the court of competent jurisdiction located within the **town of Chidambaram** in Tamil Nadu.

### 13. ACKNOWLEDGEMENT:

It is hereby acknowledged that we have gone through all the conditions mentioned above and we agree to abide by them.

Date:	Signature of Tenderer
Place:	

## Appendix-1

## APPLICATION FORM FOR SUPPLY OF \_\_\_\_\_ EQUIPMENT

s.no.	VENDOR DETAILS	
1	Name and Address of the Manufacturer/Firm/Vendor (with Telephone /fax/Mobile /email address)	
	Phone Number	
	Fax	
	E-Mail	
	Contact Person Name	
	Mobile Number	
2	Name and Address of the Local Authorized Dealer/Distributors/ Supplier	
	Phone Number	
	FAX	
	E-Mail	
	Contact Person Name	
	Mobile Number	
3	VAT/TIN No. of the Firm/Dealer (copy to be enclosed)	
4	PAN No. of the Dealer (Copy to be attached)	
5	EMD (DD No., Date & Amount and issuing Bank)	
6	Name of the University/ Government Institutes who have purchased similar equipments from your concern (attach copies)	

### 7. Declaration by the tenderer.

- i.) We hereby declare that all the particulars given in this application are true and complete to the best of our knowledge and belief and we will produce all the relevant documents promptly, if necessary or as and when asked for by Annamalai University, Chidambaram. We understand that information provided by us will serve as Prequalification Criteria for supply of equipments under this tender and in the event of any information being found false or incorrect or ineligibility being detected even after the award of Contract, Our contract may be cancelled and all our claims may be forfeited by the Annamalai University, Annamalainagar. We have read and understood all the terms and conditions of the tender and we fully agree to it.
- ii.) We also declare that we will not sell our products at a lesser price to other parties than those supplied to Annamalai University and in the event of happening of such situation, we will be bound to refund the difference and our contract may also be cancelled at the discretion of Annamalai University.
- iii.) We also undertake that all the terms such as Product Range, Price, Discount, Delivery/other charges, Terms of Payment and also the name/s of the Dealer/ Distributor will remain unchanged during the contract period and no alteration will be done without the approval of Annamalai University.

Signature

Place:	Name	:
	Designation	:
	Seal of the firm	:

Date:

## Appendix - 2

## TENDER FOR SUPPLY OF \_\_\_\_\_ EQUIPMENT TO ANNAMALAI UNIVERSITY

### LETTER OF TENDER

То
The Registrar, Annamalai University, Annamalai Nagar, Chidambaram – 608 002.
Sir, Sub: Tender for Supply of Equipment.  *****
1) I / We, the undersigned do hereby tender and undertake to Supply of equipment to Annamalai University in strict accordance with and subject to the terms and conditions set forth or mentioned in the Tender documents and appendices.
2) I / We have gone through the instructions in the tender and carefully read all the conditions of tender and agree to abide by all the conditions mentioned there in.
3) I / We hereby state that I/we have remitted (Rupees
only) in the form of Demand Draft/Bankers Cheque No Dated : drawn on Bank Branch, in favour of the
Registrar, Annamalai University as Earnest Money Deposit and agree to
have it forfeited to the Annamalai University in case of my / our failure to
supply the equipment.

4) I / We hereby certify that the price offered is final and I / We will not come forward for any revision or alteration in rates quoted subsequently due to hike in prices or any other reasons. However I/we are aware of the university's right to negotiate the discount rate while evaluating the tender.

- 5) I / We confirm that our Tender is in conformity with the technical specifications and commercial terms & conditions as stipulated in the Tender Document and without any deviations whatsoever. I am / We are aware that our Tender is liable for disqualification in the event of technical and commercial deviations observed by the Tender Accepting Authority at a later date during the process of evaluation of our Tender.
- 6) I / We further declare that the information and documents furnished in the Tender submitted by us are correct and genuine. I am / we are aware of the Tender Inviting Authority's right to forfeit the Earnest Money Deposit and / or Security Deposit and blacklisting me / us if, any information furnished by us proved to be false at the time of inspection and not complying with the tender conditions.
- 7) I / We state that I / We have not been blacklisted or debarred from participating in tenders by any Central / State Government agencies or autonomous bodies or universities / institutions.
- 8) In the event of my / our tender becoming successful, I / We undertake and agree to forward to the Registrar, Annamalai University in ten (10) days, after the notification of the acceptance of this tender has been received by us.
- 9) We undertake and agree that we will not withdraw this Tender during the period that will be required for intimation of acceptance or non-acceptance as stipulated in clause 10 of the Tender document. If I / we do so withdraw, I / we shall forfeit the Earnest Money Deposit to Annamalai University. I / We agree to execute at our cost the Agreement in ten (10) days after the notification of the acceptance of our Tender has been received by us.

In the event of our failing to make the Security Deposit or to execute the Agreement in the said manner, the Earnest Money Deposit accompanying this Tender shall be forfeited to the Annamalai University and this concluded Contract shall in such case be considered as having been cancelled or terminated and I / we agree to be liable, irrespective of the forfeiture aforesaid for all damages, losses, costs, charges and expenses arising from or by reason of such failure and arrangements.

As witness our hand this.....day of......of 2017.

Signature of the Tenderer :

Name & Address:

Company Seal :

## Appendix-3

### PRICE BID

1	Price (Both in figure and words) in Rs.	
2	CST/VAT/GST	% Amount in Rs.
	Total Amount in Rs.	

### **Important Note:**

- 1. The price quoted above shall be inclusive of all taxes and charge except CST/VAT/GST.
- 2. CST/VAT/GST shall be mentioned separately.
- 3. FOR; Destination as given in the purchase order.

## Other Information to be provided:

1.	Warranty period in years
2.	Annual maintenance charges (applicable after expiry of warranty period)
3.	After First expiry year of the warranty
4.	After second year of the warranty
5.	After third year of the warranty
6.	After fourth year of the warranty
7.	After fifth year of the warranty

Signature:
Name:
Designation:
Seal of the firm:

## Appendix - 4

## FORMAT OF CONTRACT AGREEMENT

THIS AGREEMENT made on the day of 2017
between The Registrar, Annamalai University, Annamalainagar,
Chidambaram – 608 002. (Herein after "the Purchaser") of the one part and
Supplier) (herein after called "the Supplier) of the other part:
Supplier) (herein after caned the Supplier) of the other part.
WHEREAS the Purchaser is desirous of procuring
equipment as per the tender reference No and has accepted a
bid by the Supplier for the above said equipment price offered by the
Supplier is `(Rupees in words
NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:
NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:
1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Tender referred to, and they shall be deemed to form and be read and construed as part of this agreement.
2. The following documents shall be deemed to form, be read and construed as part of this Agreement, viz;
a) The letter of Acceptance issued by the purchaser.
b) The Notice Inviting Tender.
c) The supplier's bid including enclosures, appendixes, documents,
Price Catalogue etc.
d) The Tender Document including various Terms and Conditions.
e) Any other document listed in the Tender document.
c) They other document listed in the Tender document.
<b>3.</b> In consideration of the payments to be made by the Purchaser to the Supplier within thirty (30) days from the date of delivery and acceptance by concerned department/ section.
<b>4.</b> The warranty period is years.

5.	The	AMC	/SMC	for	the	subsequen	t year	after	the	warranty	period	will
	be a	s follo	ows.									

After First expiry year of the warranty	
After second year of the warranty	
After third year of the warranty	
After fourth year of the warranty	
After fifth year of the warranty	

IN WITNESS whereof the parties here to have caused this Agreement to be executed in accordance with their respective laws the day and year first above written.

Signed, Sealed and Delivered by the Said	(For	the
Signature		
Name Address		
Signed, Sealed and Delivered by the Said	(For	the
Signature		
Name Address		
Signed, Sealed and Delivered by the Said (For the Purchaser) in the presence of	he	

Signature

### Justification for Exercise Physiology and Physiotherapy Lab equipment's

The focal point of MYAS funding is to evaluate the multidimensional characteristics of elite sportsperson and prescribing individualized training programmes for successful sport specific skill acquisition among young sportsperson. It necessitates the Division of Exercise Physiology and Division of Sports Physiotherapy in the Department of Sports Sciences to procure the following equipments that is of high standards in assessing physical and physiological variables for evaluation and for rehabilitation:

Sl.No.	Equipments	Justifications
1.	METABOLIC GAS ANALYZER	It measures cardio respiratory and physiological parameters at rest and during exercise
2.	BOD-POD	It measures body composition, thoracic gas exchange, energy expenditure
3.	LACTATE ANALYSER	It measures instant analysis of blood lactate level that determines fatigue
4.	CARDIO PULMONARY EXERCISE TESTING MACHINE	It measures VO <sub>2</sub> , VCO <sub>2</sub> , REE, RMR, V <sub>E</sub> , HRV, Respiratory volumes & capacities, and aerobic power, cardiac output, stroke volume etc.
5.	WINGATE ERGOMETER FOR LOWER BODY	It measures anaerobic power and fatigue index of lower limbs
6.	WINGATE ERGOMETER FOR UPPER BODY	It measures anaerobic power and fatigue index of upper limbs
7.	A WIRELESS SPORTS TIMING AND JUMP MEASURING SYSTEM	It measures speed, agility and power parameters like ground contact and flight times. It also used for agility and speed training.
8.	ISOKINETIC MACHINE	It is used for testing and training of isolated muscle groups for enhancing sports performance and for rehabilitation.

## **EXERCISE PHYSIOLOGY AND PHYSIOTHERAPY LAB EQUIPMENTS**

		LHA2IOFOGA AND LHA2IOLHFKALA FAR FÁOILMFUL2
Sl.No	Name of the Machine	Specification
1	METABOLIC	1. Subject mountable telemetric system for metabolic analysis.
	GAS	2. Single body-water and dust proof
	ANALYZER	3. Weight less than 1 kg including battery
		4. Testing capacity of pulmonary Gas Exchange (VO2, VCO2) VO2 max, Sub max Vo,
		Thresholds (AT,RCP),
		Heart rate with HR belt, Resting Energy expenditure (REE, RMR), indirect calorimetric w/face mask.
		5. Analysis method: Dual Metabolic sampling Technology, user selectable mixing
		chamber or breath by breath.
		6. Wireless Data connectivity within line of sight, to a distance of more than 25 m.
		7. Data storage for more than 10,00,000 breadth, with SD-HC card internal slot user
		accessible.
		8. Display minimum 3.5" LCD Transflective colour-high visibility with LCD backlight TFT with Resistive
		technology touch screen, that allows gloves and wet fingers.
		9. Analyzers
		a. oxygen- GFC 0-100% Range, lifespan approximately 12 months (Very easily
		user replace able )response time 120 ms.
		b. Carbon-dioxide- Digital NDIR0-12% range, Response time 100 ms
		c. Barometer- Range -600 to +5500 m d. Flow- Bi-Directional Digital Turbine 4 to 300 L/Min Ventilation Range
		10. Power
		a. Battery: Rechargeable Li-ion smart battery W/LCD charge status indicator, 2
		packs
		b. Backup Battery- Embedded to allow main battery replacement during testing
		without loss of data.
		c. Main- 100-240 V AC/DC Adapter for direct/Main power supply and battery
		charging.
		11. Accessories/ consumable- Needed for performance of the test including all calibration equipment, gas cylinder, regulator, stands, trolley, laptop PC with Printer.
2	BOD-POD	ACCURACY:
_	BOD-TOD	Mean difference of body fat percentage < 1% compares to reference technique.
		MASS measurement:
		Dimension & weight scale:6.4x34x32cm/11.3kg
		Volume measurement POD:
		165x84x132cm/141kg chamber volume 450 L temperature 21-27c
		Required PC configuration:
		Compatible operating system
3	LACTATE	Air conditioner (2 Ton)  • Can be analyzed from minimum one drop of capillary blood.
3	ANALYSER	<ul> <li>Can be analyzed from minimum one drop of capitlary blood.</li> <li>Enable to pre-calibrated sensor</li> </ul>
		Enzymatic amperometric detection method
		Results express in < 20 seconds
		<ul> <li>Measuring range: 0.5 - 27 mMol/L</li> </ul>
		<ul> <li>Compensates for the influence of low and high hematocrit value</li> </ul>
		■ Imprecision: ± 3 % (minimal standard deviation: ± 0.2 mMol/L)
		Provide all calibration liquids     Provide 50 and an Strict
4	CARDIO	<ul> <li>Provide 50 or more Strips</li> <li>TECHNICAL SPECIFICATIONS FOR CARDIO PULMONARY EXERCISE</li> </ul>
4	PULMONARY	SYSTEM
	EXERCISE	THE SYSTEM SHOULD HAVE FOLLOWING:
	TESTING	Lab based CPX system with medical Blue Tooth wireless Technology.
	MACHINE	Selectable parameters relayed to test subject during test
		b. Ability to operate the system <i>and</i> view the data from a remote PC or
		Notebook computer
		c. It should be able to used as stationary as well as a mobile system
		2. The system should come with BREATH-BY-BREATH measuring method.
		3. Automated zeroing enforced before each test.
	1	5. Tanoname Zerong enforces before each test.

- 4. Two point calibration required every 4 weeks only and not before ever test.
- 5. Must have continuous on the fly calibration enabling all calibration data to be constantly referred during every test.
- 6. Must have choice of digital turbines 12L/sec OR 20L/sec
- 7. Oxygen sensor must of Electro chemical fuel cell Long life up to two years life upgradable to LED technology in feature. PROVIDING THE FOLLOWING SPECIFICATIONS:

a. Range: 0-35%, 0-60%, 0-100% (option)

b. Response time: T<sub>90</sub> < 90ms

c. Accuracy  $\pm 0.1 \text{ Vol }\%$ 

17. Volume sensor Type Triple-V-Turbine, digital

 $\begin{array}{cccc} & Range & 0.05-20 \text{ l/s} \\ Resolution & 14 \text{ ml} \\ Accuracy & \pm 2 \% \\ 18. \text{ CO2 -Sensor} & Type & ND Infrared \\ Range & 0-13\% \text{ CO}_2 \\ t_{90}\text{-time} & 100 \text{ ms} \end{array}$ 

19. Temperature Sensor  $\begin{array}{c} \text{Accuracy} & \pm 0,1 \text{ Vol }\% \\ \text{Type} & \text{NTC Thermistor} \\ \text{Range} & +10 \text{ }^{\circ}\text{C} - +35 \text{ }^{\circ}\text{C} \\ \end{array}$ 

Range 200 – 1050 mbar

Accuracy ± 1,8 % Polar<sup>®</sup> - heart rate monito

21. Heart rate Polar® - heart rate monitor

- 22. should have 3-CHANNEL ECG without use of disposable electrodes
- 23. should have option to upgrade to Non Invasive cardiac output using HD ICG.(signal morphology based impedance cardiology)it should measure parameters like Stroke Volume/Index Cardiac Output/Index Contractility Index Early Diastolic Filling Ratio (Preload Index) Systemic Vascular Resistance (Afterload) Left Cardiac Work Index (surrogate of MVO2) Ventricular Ejection Time Ejection Fraction (est.)/End Diastolic Volume (est.)
- 24. Must have Spirometry, pre exercise and exercise flow volume loops.
- 25. able to upgrade to disposable sensors in future for the infection control and hygiene
- 26. It should have software option for Performance Assessment , Exercise Scheduler , Energy Metabolism for CPET, Interpretation Assistant by Wasserman.
- 27. it should be supplied with Gas-On-Demand Valve with adapter 1x Calibration Syringe, 3 l 1x Calibration Gas bottle,
- 28. Software must include graphical user interface for work load protocols creation
- 29. SOFTWARE OPTION MUST PROVIDE ZONE TRAINER PRESCRIPTION STYLE TRAINING TO DETERMINE OPTIMAL TRAINING & REHABILATATION PLAN
- 30. Software should be of medical grade and meet EN 62304 norms
- 31. System should be capable of working in OS Win7, Win8, Win 10, Windows server 2003 and 2008
- 32. Systems should be capable of patient specific predicted values and multiple predicted values for Parameter; maximum VO2 uptake, maximum relative VO2 uptake, maximum heart rate, Maximum power output, maximum ventilation, maximum breathing frequency, Basal metabolic rate, maximum ventilation, Basal metabolic frequency, Basal metabolic rate, Spirometry values

- 33. System should have user definable predicted values for above parameters.
- 34. System should have ability to enter data from other parameters namely hemoglobin, hematocrit, body fat, waist-hip-ratio, lean body weight, VC, IC, FEV1, Lactate, BGA, BP
- 35. System should have customizable warning messages when limits are reached
- 36.. System should be able to get full disclosure of exercise data breath by breath, and customizable time limit formats , with work load stages.
- 37. System should have customizable work load protocols and standard protocols including resting phase unloaded pedaling, warm-up, and exercise, cool down, resting.
- 38. System should be capable of Automatic control of pre defined action protocols and workload protocols with the ability to always interact and manually trigger automated actions and set fixed work rates
- 39. System should have pre-defined data screen and options to customize the parameters and tables displayed.
- 40. System should be capable of generation breath-by-breath report of all phases of exercise.
- 41. System should be supplied with compactable ergometer and laptop.

### **Bicycle Ergometer**

- Extra -low-step-through frame
- · Aluminium base plates for better stability
- Pedals stopping without delay
- Motor-driven saddle height adjustment with height indication
- Adjustable handlebar (360° rotation)
- Power Supply 90-265 V
- Computer-controlled eddy current brake
- Speed-independent load 6-999 Watt
- Stress Accuracy according to DIN VDE 0750-238
- Speed range 30-130 rpm
- Standard test protocol (WHO, Holimann)
- Control panel P (LCD Display)/ Remote control
- Digital: RS-232 / USB

### Treadmill

Full-featured treadmill designed specifically for Medical use, with direct interface through RS232 / RS485 computer interface standard. Our medical treadmills are used extensively in physiotherapy, rehabilitation, cardiology, stress testing, podiatry, and many other applications.

### Air conditioner (2 Ton)

### 5 WINGATE ERGOMETER FOR LOWER BODY

- Cycle Ergometer for Wingate Testing
- RPM controlled mechanism for release of weight
- Windows-based software with clear presentation graphics
- Maximum user weight of 200kg or more
- Workload range of 50 2000 watts or more in range of 50 200 RPM
- Weight basket / Brake belt / Eddy current braking system
- Heart rate sensors. Accessories for the same including chest piece and wrist piece etc to be included
- Adjustable saddle, vertically and forward/backward
- Adjustable handlebar with quick release lever
- Stable frame
- LCD / Similar meter with following displays:
  - ✓ Pedal-turns per minute (RPM)
  - ✓ Heart rate beats per minute (HR)
  - ✓ Cycling-time in minutes and seconds (TIME)
  - ✓ Intended cycling speed in km/miles per hour (SPEED)
  - ✓ Distance covered in km/miles (DISTANCE)
  - ✓ Power in Watts (WATT)
  - ✓ Energy Consumption (CAL/KJ)
- Must include the following protocols:

	1	
6	WINGATE ERGOMETER FOR UPPER BODY	✓ Wingate     ✓ Maximal work rate     ✓ Fitness test     ✓ User controlled protocol     ✓ Heart rate controlled training protocol     ✓ Heart rate controlled training protocol     ✓ Should be supplied with 03 heart rate monitor (both chest piece and wrist piece)     ✓ Should be supplied with PC (core i5 or equivalent, graphics card, original windows 10 and office 2013 or above) with stand and 2KVA UPS.     ✓ Should be supplied with colour laser printer     ✓ Power requirement compatible with power supply in India     ✓ CE/FDA/ISO certified     ✓ Should have PC port for data transfer/printing     ✓ Arm Ergometer for Wingate Testing     ✓ Windows-based software with clear presentation graphics     ✓ Workload range of 0.1 – 4 kg or equivalent     ✓ Weight basket / Brake belt / Eddy current braking system     ✓ Heart rate sensors. Accessories for the same including chest piece and wrist piece etc to be included     ✓ Adjustable back support height     ✓ User-friendly electronics     ✓ Distance between pedals and saddle to be adjustable     ✓ Should include all accessories for height adjustable frame and for carrying out wingate test      ✓ LCD / Similar meter with following displays:     ✓ Pedal-turns per minute (RPM)     ✓ Heart rate beats per minute (HR)     ✓ Cycling-time in minutes and seconds (TIME)     ✓ Intended cycling speed in km/miles per hour (SPEED)     ✓ Distance covered in km/miles (DISTANCE)     ✓ Power in Watts (WATT)     ✓ Energy Consumption (CAL/KJ)  Must include the following protocols:     ✓ Wingate     ✓ Maximal work rate     ✓ Fitness test     ✓ General training protocol       Should be supplied with 03 heart rate monitor (both chest piece and wrist piece)       Should be supplied with PC (core i5 or equivalent, graphics card, original windows 10 and office 2013 or above) with stand and 2KVA UPS.       Should be supplied with colour laser printer       Power requirement compatible with power supply in India       CE/FDA/ISO certified
		<ul> <li>Should have PC port for data transfer/printing</li> </ul>
7	A WIRELESS	Timing gates
	SPORTS	Android Tablet
	TIMING AND	Smart hub
	JUMP MEASURING	Jump mat
	SYSTEM	SMARTSPEED & SMARTJUMP SMARTSPEED & SMARTJUMP
		Hardware Capabilities Software Capabilities
		Control the SMARTSPEED Units     The SMARTSPEED mobile
		using an Apple or Android, application can be downloaded
		mobile or tablet on <b>Apple or Android, and is</b>
		<ul> <li>The smart device will connect via         Bluetooth to the SMARTHUB</li></ul>
		The SMARTHUB connects to the operates on a cloud based
		SMARTSPEED PRO Timing Units system
		using a Zigbee module, allowing  • Maximum athletes per
		for <u>150-200m of testing range.</u> SMARTSPEED account: 2000
		Maximum athletes tested     athletes     Maximum SAMARTSREED accounts
		simultaneously: 8 athletes • Maximum SMARTSPEED accounts • Maximum units connected to one
		Maximum units connected to one per organisation: 100 accounts

		SMARTHUB at one time: <b>64 ur</b>	nits • Teams are created on the
		<ul> <li>Battery life of SMARTSPEED</li> </ul>	SMARTSPEED web application,
		Units, and SMARTHUB: 6-8hrs	these teams will appear on the
		SMARTHUB and SMARTSPPED	
		operate off rechargeable	SMARTSPEED data is collected
		batteries	and linked to the athlete selected
		12 V charger for SMARTSPEED	Data from the SMARTSPEED
		5 V charger for SMARTHUB	session can be visualised and
		Charging Time: 3-5hours	exported on the SMARTSPEED
		· ·	8
		Linear speed, reactive speed, p	p. c
		planned agility, reactive agility	
		unplanned change of direction	SMARTSPEED web application     SMARTSPEED data is visualised on
		force velocity profiling,	
		rehabilitation running, and	the SMARTSPEED web application
		interval running protocols.	using Java Script to create 3
		Control <b>SMARTJUMP</b> using an	
		Apple or Android, mobile or	SMARTJUMP is supported by the
		tablet	same cloud based system
		Maximum athletes tested	SMARTJUMP data can be
		simultaneously: 8 athletes	exported to a CSV or PDF from
		Elements of performance testi	9
		Vertical jump height,	SMARTJUMP data is visualised on
		o ground contact time,	
		reactive strength inde	
		peak power output, lo	leg Dimensional reports
		stiffness	
0	ICOMMETIC		E TECTINIC O TED A ININIC ONCEEN
8	ISOKINETIC MACHINE	HUMAN PERFORMANCI	E TESTING & TRAINING SYSTEM ing that can be utilized with virtually any cubicat
8	ISOKINETIC MACHINE	HUMAN PERFORMANCI A total system for evaluation and training	ng that can be utilized with virtually any subject.
8		HUMAN PERFORMANCE A total system for evaluation and training It should offer evaluation of various ext	ng that can be utilized with virtually any subject.
8		HUMAN PERFORMANCI A total system for evaluation and trainin It should offer evaluation of various ext Technical Specifications:-	ing that can be utilized with virtually any subject. tremities, for isolated muscle groups.
8		HUMAN PERFORMANCI A total system for evaluation and trainin It should offer evaluation of various ext Technical Specifications: Modes: Isokinetic, Isotonic,	ing that can be utilized with virtually any subject. tremities, for isolated muscle groups.  Isometric, Eccentric and Passive modes are must
8		HUMAN PERFORMANCI A total system for evaluation and trainin It should offer evaluation of various ext Technical Specifications: Modes : Isokinetic, Isotonic, Reports : It should generate an	ing that can be utilized with virtually any subject. tremities, for isolated muscle groups.
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8		HUMAN PERFORMANCI A total system for evaluation and trainin It should offer evaluation of various ext  Technical Specifications:-  Modes : Isokinetic, Isotonic, Reports : It should generate at easy to read evaluation are a must – Graphics summary with grand compare multiple Speed : Less than 10 up to 50	ing that can be utilized with virtually any subject. tremities, for isolated muscle groups.  Isometric, Eccentric and Passive modes are must automatic documentation of treatment sessions and on reports and graphs. Of which the these formats is overlay for true voluntary contraction evaluation, raphic, descriptive/narrative, progress report is session 1000 per sec isokinetic concentric
8		HUMAN PERFORMANCI A total system for evaluation and trainin It should offer evaluation of various ext Technical Specifications:- Modes : Isokinetic, Isotonic, Reports : It should generate at easy to read evaluation are a must – Graphics summary with grand compare multiple Speed : Less than 1° up to 50 : Less than 1° up to 30	ing that can be utilized with virtually any subject. tremities, for isolated muscle groups.  Isometric, Eccentric and Passive modes are must automatic documentation of treatment sessions and on reports and graphs. Of which the these formats is overlay for true voluntary contraction evaluation, raphic, descriptive/narrative, progress report esession $00^{0}$ per sec isokinetic concentric $00^{0}$ per sec in isokinetic eccentric
8		HUMAN PERFORMANCI A total system for evaluation and trainin It should offer evaluation of various ext Technical Specifications:- Modes : Isokinetic, Isotonic, Reports : It should generate at easy to read evaluatio are a must – Graphics summary with grand compare multiple Speed : Less than 1° up to 50 : Less than 1° up to 30 : In passive mode less	ing that can be utilized with virtually any subject. tremities, for isolated muscle groups.  Isometric, Eccentric and Passive modes are must automatic documentation of treatment sessions and on reports and graphs. Of which the these formats is overlay for true voluntary contraction evaluation, raphic, descriptive/narrative, progress report essession 100° per sec isokinetic concentric 00° per sec in isokinetic eccentric is than 1° up to 150° per sec
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8		HUMAN PERFORMANCI A total system for evaluation and trainin It should offer evaluation of various ext Technical Specifications:- Modes : Isokinetic, Isotonic, Reports : It should generate at easy to read evaluation are a must – Graphics summary with grand compare multiple Speed : Less than 1° up to 50 : Less than 1° up to 30 : In passive mode less Torque : Up to 500 foot-lbs it Space : 14 feet X 10 feet Power : Provision for such a Expected Feature set:  • Should include system to meas movements in terms of velocit	ing that can be utilized with virtually any subject. Itermities, for isolated muscle groups.  Isometric, Eccentric and Passive modes are must automatic documentation of treatment sessions and on reports and graphs. Of which the these formats is overlay for true voluntary contraction evaluation, raphic, descriptive/narrative, progress report is session and one per sec isokinetic concentric of oper sec in isokinetic eccentric is than 1° up to 150° per sec in all modes a system at the institute 220VAC 50Hz 20 Amps as sure and train functional three dimensional try and distance. The attachment should have cable
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8		HUMAN PERFORMANCI A total system for evaluation and trainin It should offer evaluation of various ext  Technical Specifications:-  Modes : Isokinetic, Isotonic, Reports : It should generate at easy to read evaluation are a must – Graphics summary with grand compare multiple  Speed : Less than 1° up to 50 : Less than 1° up to 50 : Less than 1° up to 30 : In passive mode less  Torque : Up to 500 foot-lbs in Space : 14 feet X 10 feet Power : Provision for such at  Expected Feature set:  Should include system to meas movements in terms of velocit pulley arrangement for simulat Interactive game mode for train	ing that can be utilized with virtually any subject. Itermities, for isolated muscle groups.  Isometric, Eccentric and Passive modes are must automatic documentation of treatment sessions and on reports and graphs. Of which the these formats is overlay for true voluntary contraction evaluation, raphic, descriptive/narrative, progress report is session and one per sec isokinetic concentric on the session of t
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