BHARATHIAR UNIVERSITY : COIMBATORE 641 046

Ref.No. BU/DPE/Sports –RUSA/2017-3/ **Date: 31.08.2017**

TENDER NOTICE

Sealed Tenders are invited by the Registrar, Bharathiar University, Coimbatore 641 046 **upto 3.00 P.M on 18.09.2017** from the ISO Certified firms for the supply of **" Exercise Physiology Lab Equipments " to the Dept.of Department of Physical Education.**

Tender documents with schedule can be downloaded from our website: www.b-u.ac.in from **31.08.2017 to 18.09.2017. Te**nders should be submitted along with the **tender cost of Rs.788/- and EMD of Rs.12,500/-** in the form of DD drawn in favor of the Registrar, Bharathiar University payable at Coimbatore.

REGISTRAR i/c
BHARATHIAR UNIVERSITY

BHARATHIAR UNIVERSITY –COIMBATORE 641 046

TENDER CONDITIONS AND INSTRUCTIONS FOR THE SUPPLY OF CO2 INCUBATOR FOR THE DEPT. OF PHYSICAL EDUCATION

1. Sealed Tenders will be received by the Registrar, Bharathiar University, up to 3.00 p.m. on 18**.09.2017** for the supply of exercise **Physiology Lab Equipments, to the Department of Physical Education** of this University as specified in the schedule.

2. Tender should be addressed to the Registrar, Bharathiar University and should be only in sealed covers by Registered post/ or in person. Tenders received in ordinary covers without seal will not be considered.

3. The tender cover with Ref.No. should be superscribed as "Tender for the supply of **"Exercise Physiology Lab Equipments, to the Department of Physical Education, Bharathiar University**. **Due on 18.09.2017.**The covers received without such superscription will be rejected summarily.

4. The tenders will be opened by the Registrar in the Registrar's Chamber at 4.00 p.m. on **18.09.2017 i**n the presence of the tenderers who are present.

5. Each tender shall be accompanied with the requisite Tender Cost of Rs.788/- and EMD of Rs.12, 500/- in the form of DD drawn in one of the Nationalized Banks in the name of "Registrar, Bharathiar University" payable at Coimbatore. Cheques and Bank Guarantees will not be accepted. EMD will not carry any interest.

   i)If The tender submitted without the earnest money deposit be summarily rejected provided that any category of tenderers specifically exempted by the Government from the payment of earnest money deposit /tender cost necessary certificate should be enclosed for exemption otherwise it will be liable for rejection.

6. Tenders received late will be returned to the tenderer unopened.

7. The tender should contain particulars like the name and addresses of the Tenderers,

   a) Net rate including excise duty, surcharge, GST , insurance, delivery, installation and such other levies that may be applicable.

   b) The rates will be kept firm for Ninety days from the date of the opening of the Tenders in acceptance.

c) The rate should be quoted for each item with specification and model if applicable and should be indicated clearly both in words and figures. Any scoring or overwriting should be attested by the tenders with full signature. The rate quoted should be firm and should not be subjected to any variation clauses.

d) **Price:**

i) For imported equipments the Price shall be quoted in any Currency for Coimbatore.

ii) For Indigenous equipments: Quote the price in INR with GST and warranty. Separate charges for warranty will not be considered at any cost, should mention the valid GST Registration Number along with the copy of the registration Certificate

e) University shall not pay increase in duties, taxes and surcharges on account of any revision by the Government at the time of supply and installation.

f) The tenderer shall quote as per the tender specifications only. Option shall be given separately.

8. **Tenders will be opened on 18.09.2017 at 4.00 PM by the Registrar or Nominee in the presence of Tenderers or their representatives who may be present at the time of opening. The representatives of the tendering firms who are attending during opening of the tenders should bring a letter of authorization from the tendering firms, which they represent to identify their bonafied.**

9. The tender shall be valid for a period of 180 days from the date opening. Tender should not withdraw his tender after the tenders are opened. In case the tender is withdrawn after it is opened, the EMD paid will be forfeited.

10. The EMD of the unsuccessful tenders will be refunded immediately after the tenders are disposed of by the competent authority.

11. Successful tender shall execute an agreement for the fulfillment of contract in the stamp paper in the model form. The conditions stipulated in the form should be strictly adhered to and violation of any of the conditions will entail termination of the contract without prejudice to be right of the University and to recover any consequential loss from the successful tender.

12. Successful tender shall remit a Security deposit 5% to the order value . Security Deposit will be refunded at the end of warranty period subject to the satisfaction of the University. The EMD may be adjusted towards Security deposit payable.

13. If the Successful tender failed to act up to the tender or backs out when his tender accepted, security deposit will also be forfeited to department .

14. The material should be supplied strictly in accordance with the specifications given in the Schedule and should fulfill the successful tests carried out by the Competent Authority of the University. The supply and installation should be made as per the delivery schedule to be sent by the Registrar. The warranty period shall take effect from the date of installation. Successful tender shall be liable to change any defective part during the warranty period. In either case the damaged or defective items will have to be taken back at supplier's cost and risk.

15. For imported, if the quoted value in currency, the Payment will be made by means of irrevocable Letter of Credit / FDD in favor of the Principal Supplier after receipt of Security deposit and agreement. Advance wire transfer is not applicable Payment through Wire transfer is acceptable after supply only.

16. For indigenous equipments the payment will be made only after supply and installation of the equipment if necessary the document will be provided along with the supply order .

17. The commissioning and installation should be completed within the stipulated period mentioned in the supply order. If the supply is not made within the period, the supply order will be cancelled and the EMD & Security deposit will be forfeited.

18. The materials are to be guaranteed for at least one year date of installation and commissioning against manufacturing defect and bad workmanship. The warranty period specified will commence from the date of installation .

19. The materials quoted shall confirm to ISI standard with the number shall be incorporated wherever possible . The make of the material shall be mentioned in the tender.

20. Any dispute arising out of this contract shall be settled only at the court having jurisdiction of Coimbatore.

21. The authority competent to accept the tender reserves the right to reject or accept any tender without assigning any reasons thereof.

22. Regarding the acceptance of supply with reference to the specification and quality of materials supplied, the decision of Registrar shall be final.

23 Additional Documents are required for evaluation in addition to price :

- ISO certificate copy
- Authorization letter obtained from the manufacturer
- Company profile
- Number of years standing in the business.
- Average turnover in the last two years.
- Backup facility for the warranty period.
- GST Number, whenever required.
- Any other relevant details like customers service report and supply orders in support of the item specified.

24. Incomplete Tenders: Tenders without the complete particulars for evaluation will not be considered.

25. Tenders will be considered only from the manufacturer/ authorized distributors

26. The University's general rules for the supply of the materials and works will apply on this purchase also.

27. The University is registered with DSIR, it is eligible for exemption of Central Excise duty as per Government Notification No.10/97 Central Excise Dt: 1.3.1997. It is also eligible for customs duty exemption as per the Govt.Notification No.51/96 Customs dt.23.07.1996.

28. For imported equipment, necessary documents for customs clearance will be provided by the University within 2 working days after receipt of original Cargo arrival/shipment notice and invoice from the principal supplier. Hence, no demurrage will be paid by the University for Clearance Delay.

29. The Customs clearance charges, transportation up to the University have to be borne by the firm' account. Installation and training charges if any are to be borne by the firm.

30. No communications from any tender adding to/adhering or explaining any terms of the tender will be considered prior to the submission or after opening of the tenders by the competent authority

31. In case of any modifications in specifications/terms and conditions/ any clarifications to the bid document it will be hosted in our website only and bidders are requested to log on to our website from time to time regularly for any amendment and no separate corrigendum will be issued in this regard.
32. The tender should be submitted subject to and agreeing the above conditions duly attested and certified.

TO BE FILLED IN BY THE TENDERER:.

S.No.	**Tender Cost – Rs.788/-** **B.U.Challan No/DD No./Date**	**EMD Details Rs.12,500/-** **DD No/Banker's Cheque No/ Date**

SIGNATURE OF THE TENDERER

Schedule

EXERCISE PHYSIOLOGY LAB UNIT EQUIPMENT SPECIFICATIONS				
Sno	**Equipment**	**Qty**	**Brand**	**PRICE**
1.	Grip dynamometer	5 nos	Camry/ Acco	
2.	Digital Spiro meter	2 nos	Cosmed/ Microquark/ Spiro USB	
3.	Heart rate monitor	5 nos	Fitbit	
4.	Pulsoxymeter	4 nos	Fingertip	
5.	Digital BP Monitor	4 nos	Citizen/ omoron	
6.	Bike ergometer	1no	G Star, Therapy cycle	
7.	Arm ergometer	1 no	Oprio Hand Exerciser	
8.	Leg Dynamometer	5 nos	Bike ergometer	
9.	Arm and shoulder Dynamometer	5 nos	Futaba Professional	
10.	Postural analyzer Kit	2 nos	Meyer Dc	
11.	Body Composition Monitor	5nos	Omoron	
12.	Chronometer (Reaction timer)	1no	iWorx TA	

SIGNATURE OF THE TENDERER

S. No	Item Description	Specification
1	**Hand Grip Dynamometer Digital.**	System should be ergonomically designed to fit comfortably in the hand. System should be wireless, reliable and quantifiable with hand grip and pinch Dynamometer. System should help to provide accurate and quantifiable results in identifying of weakness in the wrist, hands, or in the fingers due to injury or disease. The grip and pinch gauge adjusts to different test settings: maximum grip, 5 position grip, rapid Exchange grip, Hand Fatigue grip, Key pinch, Palmar Pinch and tip pinch. Selectable units of measure: Pounds (Ibs), Newtons (N), or kilogram-Force (kgf). Low and high threshold settings: Low- 0.8 Ib. to 200 Ibs, in 0.1 Ib increments. Measuring accuracy within 1%.
2	**Digital Spirometer**	System should be computerized and complete lung function analysis by measuring SVC,FVC and MVV for both pre and post medication and interpretation. Should have predicted normal values for Indian standard Measure following sub parameters FVC , FEV0.5 FEV10 FEV0.5/FVC FEV1.0/FVC, FEV3.0 /FVC, FEF 25-75% , MEF 50%, FIVC ,F1VI, FIV 10, FIV1.0/FIVC , PIF, MIF 50% , SVC , ERV, IRV, TV, MV,RR, TV, MVV,RR Safety standard IEC60601- Certified CE /FDA/ATS ERS standard
3	**Heart Rate Monitor with Heart Rate Variable**	Heart rate monitor should record and transmit HR. Transmitter in chest belt and receiver in wrist (Watch type) Recording rate of 1,5, 15 and 60 s. Heart rate limits: 30 to 240beats/min with HR variability. Should be water resistance with coded wireless transmitter that prevent cross talk with other monitor and adjustable band included. Complete with software. IR interface for USB port and Windows operating system or later. Suitable for downloading data into computer from heart rate monitor.
4	**Pulse Oximeter**	Should have plethismographic wave form with numeric display for SPO2 and Heart rate on LCD/TFT display. 2. Should have a SPO2 range of 0 to 100%. 3. Should have SPO2 accuracy of ±2%. 4. Should provide bar graph for pulse strength. 5. Audio and visual alarm for both upper and lower SPO2, Heart rate. 6. Should provide with adult reusable finger probe with technology from standard reputed companies.. 7. Beep sound and alarm sound should have separate volume control 8. Should have a minimum of 2 hours back-up time. 9. Should be a portable, light weight and desktop model. 10.Should work with input 200 to 240Vac 50 Hz supply.Should have safety certificate from a competent authority CE
5	**Ambulatory Blood Pressure Monitor**	Ambulatory Blood Pressure Monitor Specifications Monitor must Be validated by BHS ABPM must be lightweight less than 260g
6	**Anaerobic**	System should be manually Programmable and should have inbuilt HR rate

	/aerobic cycle ergometer	control program. System should have inbuilt memory capacity to record the program System should show the following parameter braking power in watt , Training time, distance , heart rate, and anaerobic heart rate zone , speed , RPM System should have inbuilt performance tests System should have inbuilt USB or RS232 port for computer interface System should have facility to Measure HR by chestbelt System should be international standard like IEC EN 60601 DIN EN 957-5 Safety standard as class I Should be provided with PC and software for astrand
7	**Ergometer for upper body**	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 chestLCD/similar meter with following displays: Pedal-turns per minute (RPM) Heart rate in 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).
8	**Back/ Leg Dynamometer**	Digital System should be measure back and leg strength specifications: • Strength Testing: Back, Legs & Chest • Range: 0-300kg • Graduation 1kg
9	**Shoulder & Arm Dynamometer**	The Shoulder & Arm Dynamometer evaluates both the pressure and pulling power of the shoulder & arm. • Strength Testing: Shoulders & Arms, Push & Pulling Power • Range: 0-100kg • Graduation 1kg
10	**Postural Analyzer Kit**	Devices for analysing posture in the frontal, rear and lateral planes. The patient stands with feet in the positions indicated on the platform. It includes a platform elastic grid, two aluminum side bars, measuring indicators with plumb line for postural reference (Barré's vertical evaluation) and adjustable mirror on top. The image reflected in this upper mirror allows observation of any rotation of the shoulders. • Manual: GB, IT (on request ES) • Adjustable upper mirror • Size: 80 x 72 x 225 h cm • Capacity: 135 Kg
11	**Body Fat Analyzer**	System should measure and software should display following parameter.

		Body Fat % Kg Fat Free Mass and Muscle % Kg Total Water % litres Extra and Intra Cellular Water % litres (Ratio Extra/Total) Body Cell Mass, Extra Body Cell Mass Mineral Mass Basal Metabolic Rate (BMR) Total Energy Expenditure (TEE) by activity (6 levels) Ideal Weight by gender and build Dry Weight Body Mass Index (BMI) Obesity Grade Build calculated by wrist size Waist / Hip Ratio Waist / Height Ratio Impedance 1-500kHz Resistence y Reactance 50kHz
12	**Anticipation assessment apparatus Chronometer (Reaction timer)**	Should have LCD display light and sound.2 Functions for light & 3. LCD display for counting of Reaction Time. 4. Soft touch switches. 5. 4 colour LED's. 6. 4 tones in sound operation. This system is used in various Psychological institutes to detect reaction time of the persons.Somewhere it can be used as IQ testing instrument also. There are two sides in the instrument-Experimentor side & Trainer side.A sheet seperates the two sides. There are two modes of functions-Light & sound.Any of these two functions can be selected by mode switch. There are four switches as well as four no.of L.E.D's on both the sides.The switches in the Experimentor side are to glow the lights, whle,the switches in trainer side are to OFF the lights. First select the light mode & glow any light among the four & Trainer is asked to keep it OFF as quickly as he can do.The time taken by him is measured in LCD meter ie known as his reaction time. Similarly in 2nd mode ie sound mode start any sound using the same switches & ask the Trainer to keep the sound OFF immediately. Experimentor may change the mode of operation among audio & visual through switch any time & many time during the whole test. The minimum time taken by the Trainer to OFF light/sound is called good reaction time.