



THAVAKKARA, CIVIL STATION P.O., KANNUR, KERALA 670002
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NOTICE INVITING E-TENDER

The Registrar, Kannur University invites e-tender in Two Bid System (Two cover) for the supply, Installation, Testing and Commissioning of “**SPORTS EQUIPMENTS**” at School of Physical Education and Sports Science, Mangattuparamba Campus, Kannur University (under PM USHA scheme) from original equipment manufacturers (OEMs) or authorized distributors/dealers as per the technical specifications and schedule given below. The rate quoted should be inclusive of all taxes, installation charges and other charges. The Registrar, Kannur University reserves the right to accept or reject the tenders without assigning any reason thereof. The list of equipment/accessories proposed to be purchased, including its quantity and specifications are furnished in the schedule of items given below. Since this is an E-tender, only those bidders who have enrolled in the <http://etenders.kerala.gov.in> portal with their own Digital Signature Certificate (DSC) can participate in the tender. E-Tender document and other details can be obtained from the above e-portal.

TENDER SCHEDULE

E-Tender ID	2025_KnrU_810525_1
Name of work	Supply, Installation, testing and commissioning of Scientific SPORTS EQUIPMENTS at School of Physical Education and Sports Science, Mangattuparamba Campus, Kannur University
Last date for receipt of Tender	26/11/25, 11 AM
Date and time of Opening tender	28/11/25, 11 AM
EMD	Rs. 86,768 /-
Tender fee	Rs.13,000 /- {excl. GST}
<i>All the MSMEs with Udyog Aadhar Registration working within the state of Kerala will be exempted from the payment of Tender Fee and EMD. Under MSME category, only Manufactures for Goods and Service Providers for Services are eligible for EMD/Tender fee exemption</i>	
Place of supply and installation	School of Physical Education and Sports Science, Mangattuparamba Campus, Kannur University- 670567

For further details logon to <http://etenders.kerala.gov.in>.



List of Equipments to be Supplied	
Sl. No.	Item
1	GPS - Physiological Monitoring System
2	Biaxial force plates
3	Perpetual product License for Biaxial force plates
4	Cycle Ergometer
5	Velocity based training (VBT) Device Gymware with Licence
6	Portable metabolic gas analyser
7	Portable Blood Lactate Analyser with strips and additional lactate analyzer strips
8	Fitfight - 12 lights with neurocognitive performance assessment
9.	Heart rate Monitor and Recovery Bands

TECHNICAL SPECIFICATIONS

1) GPS – PHYSIOLOGICAL MONITORING SYSTEM

- Performance Systems with 10 man system Including, 10 Nos of complete hardware Biomodules , 20 bay Biomodules charging station, 15 strap, receiver and latest software.
- Software - Perpetual license
- Hardware warranty – 2 years

The system should have the following measured parameters

- ECG
- Respiration
- Estimated core body
- temperature
- Accelerometry
- Time , Location



The system should have the following physiological and biomechanical parameters

- • Heart rate (HR) , Breathing rate
- • HR variability , HR confidence
- • Estimated core body
- .temperature
- • Impact
- • Activity
- • Posture , Caloric burn
- • % Heart rate (max) , % Heart rate (AT)
- • Accelerometry
- • Physiological and mechanical intensity and loads
- • Training loads and intensity
- • Jump
- • Explosiveness
- • Peak force, Peak acceleration
- • GPS speed, GPS distance, GPS elevation

- It should Use ECHO to provide heart rate, RR interval, speed, and distance to Android devices
- Should be Machine washable strap and compression shirt offer both comfort and accuracy
- It should be water resistance upto 1 M.
- Should be able to log and store upto 20 days of data.
- Should have Heart rate range 25–240 BPM , Breathing rate range 4–70 BPM , Acceleration range $\pm 16g$.
- Should have rechargeable lithium battery.
- Should have 300 charge cycles.
- It should have Transmit range Up to ~300 feet; extending to up to ~1000 feet with antenna and amplifier
- It should have Frequency 2.4–2.4835GHz ,Operating limits Temp: -10° C – 60° C and Humidity: 5% – 95%

2) Biaxial Force Plates with Perpetual License for Biaxial force plates (Item 2 & 3 Together)

Force platform should be sports specific and easy to install and use in lab and outdoor.

A- Hardware

- Platform transmit data telemetric or wireless force platesystem
- 9 hours of battery
- 5 year warranty
- Adjustable feet for use on any surface
- Material: Stainless steel / Aircraft aluminum
- Weight of each plate is 13 kg

B- Software

- System software data is accessed from anywhere in the world's



- Unlimited athletes allowed
- Tagging and filtering allowed
- Printable reports and pre-loaded templates (trend report, athlete profile – radar and bar, comparison, DSI, EUR, weight, percentile, quadrant charts) for easy Customization
- Different options to score athletes in the mobile app: o Z scores (-4 to +4) o Modified Z scores (0-100) o % change o Absolute change • 300+ metrics available: o Countermovement jump – 77 metrics o Squat jump – 41 metrics o Drop jump – 68 metrics test – 29 metrics o Multi rebound – 15 metrics o CMJ rebound – 95 metrics o Free run – 10 metrics

- Assessments available: Static (Loaded squat jump, unilateral squat jump, static pushup) Slow dynamic , CJM (Loaded CJM, Unilateral CJM, Ballistic Pushup, CJM Rebound (Loaded SMJ-RE, Unilateral CMJ-RE) Fast dynamic – Drop Jump-(DepthJump) Multi Rebound (10/s Rebound, Scandinavian Rebound , Basco Jump Test)
- Isometric (Isokinetic Mid-Thigh Pull, Isometric Back Squat, Isometric trap bar pull, Isometric belt squat, ASH Test , Special Isometrics) Free Run (Squats , Balance Test , Nordics, Unlimited Options)

Details of Supply

1. Dynamics Force Plates system-01 Nos
2. Software license – Perpetual
3. Pelican Travel case-01 Nos
4. Foam Surround-01 Nos
5. Tablet-01 Nos

3) Cycle Ergometer

- Stability: 2 rear stabilisers to adjust to all types of floor surfaces.
- Connectivity: E-Connected + Kinomap compatible. Can connect to watches, cardio belts, etc.
- Adjustable resistance: 15 resistance levels to make it easy to progress. Heart rate grips.
- Coaching: Console with 12 built-in programmes, connected to E-Connected & Kinomap apps.
- Smooth pedalling: 6 kg flywheel ensures smooth pedalling and a more comfortable experience.
- Adjustable: The handlebar and seat are height-adjustable to guarantee good posture
- Autonomy: No need for an outlet. Pedal to create the electricity the bike needs.

Technical Specification:

- Periodicity: Up to 5h / week
- Frequency: Regular
- Folded length (in cm) : 99 cm
- Power type: Self-powered
- Width (in cm) : 64 cm
- Tablet holder: With tablet holder
- Height (in cm) : 164 cm
- Sportsperson's maximum weight: 130 kg
- Level of practice: Intermediate
- Flywheel weight and equivalences: 6 kg



- Weight (in kg) : 34.5 kg
- Number of programme(s): 12 programmes
- Resistance type: Motorised
- Audio output: No audio output
- Screen type: Lcd
- Folded height (in cm): 164 cm
- Length (in cm): 99 cm
- Type of hrm: Hrm manual sensors
- Number of levels of resistance:15
- Flywheel: With flywheel
- Moving comfort: With wheels

4) Velocity Based Training (VBT) Device Gymware with Licence

- License – 3 years
- GymAware package includes:
 - GymAware RS
 - Hard Travel Case
 - 1yr GymAware Cloud Pro license
 - x1 GymAware Practitioner course
 - GymAware Jump Strap
 - 1kg Base Plate
 - Tabnetic GymGrip – magnetic iPad holder
 - USB Cable
 - GymAware service kit

5) Portable Metabolic Gas Analyser (VO2 Master Analyzer (Professional Kit)

- 4 Mask Sizes – Fits all Demographics
- Consumables for 150 Tests
- Details for Supply
 - 4x Blue Hans Rudolph V2 reusable masks
 - 4x Hans Rudolph five-point head straps
 - 2x Filter Replacement Packs
 - 3x User Pieces: One Resting, one Medium, and one Large (includes a Mask Locking Nut for each User Piece)
 - User Piece hand tool (Used to aid in installing/removing the Mask Locking Nut)
 - Hans Rudolph adjustable 3L calibration syringe
 - Syringe Calibration Adapter + Silicone Piece (Additional Petite Mask Sealing Gasket, only supplied with the petite mask)
 - 2x Syringe hoses
 - Additional Desiccant Cartridge
 - Polar Heart Rate Monitor + Strap and instructions
 - Nanuk 910 waterproof, impenetrable and indestructible hard case
 - Quick Start Guide



- Calibration Certificate
- Cleaning kit, including swabs and wipes
- 2-year manufacturer's warranty

6) Portable Blood Lactate Analyser with strips and additional lactate analyser strips

- Test item: Blood lactate level
- Portable, light weight, battery operated.
- Can measure lactate from whole blood with minimal sample (< 5 µl).
- Measuring range: 0.3 mmol/L or less – 30.0 mmol/L or less.
- Operating condition:
- Temperature: 0 ° – 50 ° C
- Humidity: 5 – 95%.
- Data should be displayed within the device in digital format with shortest time.
- Memory capacity: > 300 samples.
- Provision to interphase the data with data acquisition system through USB cable and results should be viewed in the supplied data management software.
- Pack of 25 test strips with the equipment
- Additional strips – 7 packs for 175 strips

7) Neurocognitive performance assessment (FIT-LIGHT System)

- The system should have wireless LED light system.
- System should allow us to have reaction time training and cognitive training.
- The sensor should be able to register both impact(touch) and motion
- The system should be used indoors or outdoors up to 50M-75M away from the device.
- It should have Programmable LED wireless lights
- It should deactivate from 10cm-80cm (programmable in 10cm increments) and have 3 impact levels (low, medium, hard)
- It should be Easily mounted on a variety of surfaces and integrated into any training routine with the included Velcro pads or any of our flexible mounting options
- Should be Adaptable for both single person use and group training (for up to 8)
- Should be Sleek and robust design that is impact resistant and made to last
- System should have the ability to Expand your system any time with up to 32 lights (total)
- Should have Unlimited programming options - completely customize programs, to each individual light

Equipment Details:

- Should have 6 lights with neurocognitive performance assessment
- CARRYING & CHARGING CASE-01 Nos
- Charging Cables-01 Nos
- Velcro Locks (1 per light)-06 Nos
- Velcro Pads (1 per light)-06 Nos
- Free download and access to FITLIGHT® App-01 Nos
- iPad-01 No.



8) Heart Rate Monitors

<u>Item</u>	<u>Items' Specification</u>	<u>Numbers required</u>
HEART RATE SENSOR/RECOVERY BAND (TYPE I)	• It should be compatible with iOS and Android • Should be able to update Via mobile phone using software or app. • Battery life should be a minimum of 400 hours with Bluetooth Low Energy and 5kHz transmission active • Should be water resistance for up to 30 m (Suitable for swimming) • Operating temperature range should be -10 °C to +50 °C / 14 °F to 122 °F • Connectivity should be ANT+, Bluetooth Low Energy, 5 kHz	4
HEART RATE SENSOR/RECOVERY BAND (TYPE II)	• The product's weight should be 1.8 oz (52 g) or less. • The water rating should be a minimum of 5 ATM • Should have a Battery life of up to 12 months • Should pair with the App • Should be able to transmit data over ANT and BLE • Should support a minimum of three concurrent connections • Activity Tracking Features should consist of- Step counter, Calories burned, Distance travelled, Intensity minutes, etc. • Running Features should have- Running Dynamics, Running pace and distance. • Fitness Features should have- Heart rate and HRV (Heart Rate Variability), XC Ski Power. • Swimming Features should have- Swim interval heart rate stats. • Should be able to store and forward heart rate data.	3
HEART RATE SENSOR/RECOVERY BAND (TYPE III)	• Should have an activity tracker • The Activity Tracking Function should have- Activity Tracking, Sleep Tracking, Blood Oxygen, Skin Temperature, Respiratory Rate, Resting Heart Rate (RHR), Heart Rate Variability (HVR), Stress Monitor • Should have the Sensors for Heart Rate, Pulse Oximeter, Temperature Gyroscope, Accelerometer • Should be compatible with Android & iOS • It should come equipped with at least one year of subscription for advanced metrics.	3



General Terms and Conditions

1. The tender should be submitted in two cover system (Technical bid & Financial bid).
2. Prices shall be quoted in Indian Currency only.
3. Tender fee and EMD should be remitted through SBI MOPS as indicated in the e-Tender website. All payments including EMD should be made through online but 18% GST of Tender fee should be remitted to GST Department directly. The bidder shall be solely responsible for the payment of GST. The University holds no responsibility or liability in this matter.

Sl. No	Equipment	Tender Fee		EMD
		Fee	18% GST	
1	GPS - Physiological Monitoring System	₹13,000/-	₹2,340/-	₹ 86,768/-
2	Biaxial force plates			
3	Perpetual product License for Biaxial force plates			
4	Cycle Ergometer			
5	Velocity based training (VBT) Device Gymware with Licence			
6	Portable metabolic gas analyser			
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8	Fitfight - 12 lights with neurocognitive performance assessment			
9	Heart rate Monitor and Recovery Bands			

4. ***All the MSMEs with Udyog Aadhar Registration or any other body specified by the Ministry of Micro, Small and Medium Enterprises working within the state of Kerala will be exempted from the payment of Tender Fee and EMD. Under MSME category, only Manufactures for Goods and Service Providers for Services are eligible for EMD/Tender fee exemption.***
5. Custom Clearance of the consignment including all the stages of custom clearance will be under the purview of supplier.
6. The total rate tendered should be inclusive of all taxes and other charges.
7. The bidders shall keep their rate for a period of **180days**.
8. The successful bidder shall, before signing the agreement and within the period specified in the letter of



acceptance of his tender, deposit a sum equivalent to 5% **of the value of the contract** by way of Demand Draft drawn in favour of the Finance Officer, Kannur University payable at SBI Kannur University Campus Branch or Kannur Branch of other Nationalized or Scheduled bank, as security for the satisfactory fulfillment of the contract.

9. All bid/tender documents are to be submitted online. Tenders /bids shall be accepted only through online mode on the website and no manual submission of the same shall be entertained.
10. Profile of Bidder as per Annexure1 shall be provided.
11. The bidder should upload along with his tender a preliminary agreement executed and signed in Kerala Stamp Paper of value of Rs.200/- as per format given in Annexure 2.
12. The earnest money of the unsuccessful bidders will be returned through online Transaction and the EMD of successful bidders will be discharged upon the bidder executing the contract and furnishing the security deposit that will have to be deposited for the satisfactory fulfillment of the contract.
13. The bid shall contain detailed technical specifications, Brochures and pamphlets of all items quoted.
14. All the claimed specifications (make, model, year of manufacture, warranty etc) should be mentioned in the Brochure or Catalogue of the equipment
15. The installation, commissioning and the initial operation will be the responsibility of the supplier.
16. In case of underperformance during the warranty period, the item should be replaced and the period of warranty will recommence from the date of replacement.
17. The payment will be made after completion of supply, installation and commissioning.
18. The bidder shall undertake to supply materials according to the standard sample and /or specifications.
19. No representation for enhancement of rates once accepted will be considered.
20. The bidder shall quote their rate in the standard BOQ provided indicating the breakup details.
21. The supplier shall ensure the quality of the stores supplied.
22. The provisions of Kerala Stores Purchase Manual are applicable to this Tender and further proceedings.
23. The University reserves all rights to accept or reject any or all the tenders without assigning any reason whatsoever at its discretion.
24. The bidder should have the responsibility to attend the first level service if any complaint report. Bidders should have authorized service centres in Kerala
25. The final acceptance of the tenders rests entirely with the University who do not bind themselves to accept the lowest or any tender. But the bidders on their part should be prepared to carry out such portion of the supplies included in their tenders as may be allotted to them.
26. Communication of acceptance of the tender normally constitutes a concluded contract. Nevertheless, the successful bidder shall also execute an agreement for the due fulfillment of the contract within the period to be specified in the letter of acceptance. In cases where a successful bidder, after having made partial supplies fails to fulfill the contracts in full, all or any of the materials not supplied may at the discretion of the Registrar, be purchased by means of another tender/quotation or by negotiation or from the next higher bidder who had offered to supply already and the loss, if any, caused to the University shall there by together with such sums as may be fixed by the University towards damages be recovered from the defaulting bidder.



DOCUMENTS TO BE SCANNED AND UPLOADED

1. Bidder Profile (as per format mentioned in Annexure1)
2. Scanned copy of valid registration certificate (GST) & PAN Card
3. Scanned copy of relevant Brochure of the equipment including make & model and copy of its certifications like ISO certification.
4. Address details of Service Centres
5. Valid authorization certificate from OEM (in case of resellers)
6. Warranty Certificate
7. Any Details of previous installations.

GSTIN32AAAGK0152J1ZT

Contct : 0497 2715243

Sd/-

Prof. (Dr.) Joby K Jose
Registrar



ANNEXURE 1**BIDDER PROFILE**

Sl.No	Particulars	
Details of bidder(Firm/Company)		
1	Name	
2	address	
3	Telephone & Mob	
4	Email & website	
Details of Authorized Person		
5	Name	
6	Address	
7	Telephone & Email	
Information about the company		
8	Status of Company (Public Ltd./Pvt.Ltd)	
Details own functional service centre or authorized functional service centres		
9	Number of Professionals	
10	Service Tax Registration Number	
11	Income Tax Registration Number (PAN)	
12	GST Registration Number	

Signature of the Bidder



PRELIMINARY AGREEMENT

Articles of agreement executed on this the day of
 between the Registrar, Kannur University (hereinafter referred to as “the University”) of the one part and Shri.....
 (H.E. name and address of the tenderer)(hereinafter referred to as “the bounden”) of the other part.

WHEREAS in response to the Notification No..... dated..... the bounden has submitted to the University a tender for the specification therein subject to the terms and conditions contained in the said tender;

WHEREAS the bounden has also deposited with the University a sum of Rs.....
 `..... as earnest money for execution of an agreement undertaking the due fulfillment of the contract in case his tender is accepted by the University NOW THESE PRESENTS WITNESS and it is hereby mutually agreed as follows:

1. In case the tender submitted by the bounden is accepted by the University and the contract for..... is awarded to the bounden, the bounden shall within days of acceptance of his tender execute an agreement with the University incorporating all the terms and conditions under which the University accepts his tender.
2. In case the bounden fails to execute the agreement as aforesaid incorporating the terms and conditions governing the contract, the University shall have power and authority to recover from the bounden any loss or damage caused to the University by such breach as may be determined by the University by appropriating the earnest money deposited by the bounden if the earnest money is found to be inadequate the deficit amount may be recovered from the bounden his properties movable and immovable in the manner hereinafter contained.
3. All sums found due to the University under or by virtue of this agreement shall be recoverable from the bounden and his properties movable and immovable under the provisions of the Revenue Recovery Act for the time being in force as though such sums are arrears of land revenue and in such other manner as the University may deem fit.

In witness where of Shri.....(name and designation) for and on behalf of the University and Shri.
 Bounden have hereunto set their hands the day and year shown against their respective signatures.

Signed by Shri. (date)
 In the presence of witnesses:

1.
2.

Signed by Shri. (date)
 the presence of witnesses:

1.
2.

