



Tamil Nadu Physical Education and Sports University

Melakkottaiyur Post, Chennai, Tamil Nadu - 600 127

Website: www.tnpesu.org

Email: regtnpesu@gmail.com

Phone No: 044-27477906

CORRIGENDUM

BIDDERS ARE REQUESTED TO FOLLOW THE CORRIGENDUM OF THE TENDER (Whole or Part) TWO BID System (QCBS) for SUPPLY OF EQUIPMENT and ACCESSORIES for the HIGH-PERFORMANCE CENTRE FOR SPORTS (HPCS) - at the Centre of Excellence in Biomechanics at the TNPES university, Chennai – 600 127.

The last date of submission of bid is extended till 26.02.2025 4.30 p.m.

Sl. No	Previous	Page no of tender	Corrigendum (revised)
1.	Tender No.3404-3 / 2025 Item III Instrumented Treadmill with software and accessories (With tube based Vo2 max. SmO2 and ECG/HRV) integrated with eye tracker and accessories	1	<i>3D Instrumented Treadmill Single belt / Dual Belt with software and accessories (With tube based Vo2 max. / Tube less Vo2 max / SmO2 / sEMG / ECG / HRV) integrated with eye tracker and accessories (Bidder can bid without eye tracker also but preference will be given to the bids with eye tracker integrated)</i>
2.	Last date for submission of tender 19.02.2025 @ 16.30 hrs	2 and 5	<i>Last date for submission of tender 26.02.2025 @ 16.30 hrs</i>
3.	Date, time and Place of opening of technical bid of the tender: 20.02.2025 @ 11:00Hrs at Syndicate Hall, Administrative Building, TNPESU, Chennai – 600 127.	2 and 5	<i>Date, time and Place of opening of technical bid of the tender: 27.02.2025 @ 11:00Hrs at Syndicate Hall, Administrative Building, TNPESU, Chennai – 600 127.</i>
4.	2.2 Law: The courts at Kanchipuram District, Tamil Nadu, India shall have exclusive and sole jurisdiction over any disputes, differences or questions arising out of or in connection with or in relation to the tender / contract.	10	<i>The courts at Chengalpattu District, Tamil Nadu, India shall have exclusive and sole jurisdiction over any disputes, differences or questions arising out of or in connection with or in relation to the tender / contract.</i>
5.	3.27 Annual Maintenance Contract (AMC) Clause: Supplier to declare in advance, the annual maintenance contract details and price per year after warranty expiry in the quote as an optional item.	22	<i>Annual Maintenance Contract (AMC) and Comprehensive Annual Maintenance Contract (CAMC) Clause: Supplier to declare in advance, the annual maintenance contract and comprehensive annual maintenance contract details and price per year after warranty expiry in the quote as an essential (mandatory) item.</i>
6.	3.32 Training Required. Please confirm this clause in your quotation. The supplier shall	22 and 23	<i>3.32 Training Required. Please confirm this clause in your quotation. The supplier shall demonstrate the full</i>



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	demonstrate the full functionality of the proposed system (i.e., the actual system which has to be delivered to TNPESU) at the manufacturer's site prior to shifting the system to TNPESU. The FAT and critical training shall be carried out at the vendor's premises in the presence of TNPESU representatives. Any factory specific training shall be given for at least 2 persons for five days at vendor premises. The necessary approval by the TNPESU is essential before shifting the system to TNPESU. After formal ATP, the vendor shall also provide the requisite maintenance training for the TNPESU team (consisting of at least 4 members) at the TNPESU site, for at least one week on installation, software, operation, trouble shooting and maintenance aspects of the system with appropriate manuals		functionality of the proposed system (i.e., the actual system which has to be delivered to TNPESU) at the manufacturer's site prior to shifting the system to TNPESU on request (if needed) . The FAT and critical training shall be carried out at the vendor's premises in the presence of TNPESU representatives. Any factory specific training shall be given for at least 2 persons for 10 days at vendor premises (Before or after installation within a period of 12 months) . The necessary approval by the TNPESU is essential before shifting the system to TNPESU. After formal ATP, the vendor shall also provide the requisite maintenance training for the TNPESU team (consisting of at least 4 members) at the TNPESU site, for 30 days (Maximum of 3 days of 10 intervals within 24 months) on installation, software, operation, trouble shooting and maintenance aspects of the system with appropriate manuals. The OEM / Authorized bidder should also facilitate the industry institution collaboration, Inter Institution networking, webinars, workshop, conference, and research funding (The bidders can submit one page write up how you can facilitate and support post installation which will also be taken into consideration).
7.	3.36 Purchase order will be placed on the vendor offering the lowest quote (Basic Cost) and meets all the technical & commercial requirements as per the RFP. The lowest quote of AMC will also be taken in to consideration in finalizing L1.	23	Purchase order will be placed on the vendor based on Technical Score and Commercial / finance score (QCBS) and meets all the technical & commercial requirements as per the RFP. The lowest quote of CAMC will also be taken in to consideration.
8.	5.5 (INCOTERMS 2010)	29	(INCOTERMS 2020)
9.	Legal stricture Private limited	31	Legal structure Private limited / Partnership firm
10.	IV Solution Approach and Methodology	31	IV Solution Approach and Methodology



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	<ol style="list-style-type: none">1. Presentation & Demonstration2. Product Specification3. Ease of Integration with multiple technologies4. Justification for Complete Solutions5. Note: The marks for Approach and Methodology will be given by the Technical Evaluation Committee based on the presentation made by the bidder depending on the extent of meeting the corresponding requirements.		<ol style="list-style-type: none">1. Presentation & Demonstration2. Product Specification3. Ease of Integration with multiple technologies (Wherever applicable)4. Justification for Complete Solutions5. Note: The marks for Approach and Methodology will be given by the Technical Evaluation Committee based on the presentation made by the bidder depending on the extent of meeting the corresponding requirements.
11.	3404-1 / 2025 Item -I	53	<p>3404-1 / 2025 Item -I</p> <p>Sl. No:60: Abductor-Adductor</p> <ol style="list-style-type: none">a. <i>The equipment should have direct drive system that offers two opposing cams for less cable-slack and faster workout changeover.</i>b. <i>It should come with plate increments of 13 x 11 lbs (5 kg).</i>c. <i>The equipment should have convenient rotating thigh pads.</i>d. <i>Maximum user weight should be 225 kgs or more.</i>e. <i>The weight stack should be at least 60 kg or more.</i>f. <i>The product should have EN-957 or ASTM certification for stationary fitness equipment.</i> <p>Serial No:61: Rod Rack</p> <ol style="list-style-type: none">i. <i>The device should have a triangular-shaped space-saving design</i>ii. <i>The rack should store a minimum of 12 barbells vertically.</i>



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			<p><i>iii. The solid steel bottom should keep the bars straight and upright</i></p> <p><i>iv. Should be able to organize bars of different types such as hex, axle & log</i></p> <p><i>v. Should have seamless tubing and crimped lip on bar holder</i></p> <p><i>vi. Should have powder coat finish</i></p> <p><i>vii. Should be designed for stability & durability</i></p> <p><i>viii. The blended fabrication of oval pipes should be of minimum 11-gauge thickness.</i></p> <p>Serial No: 62: Wind gauge in track and field (World Athletics approved) – 2 Nos.</p> <p>Serial No: 63 – Tower (2 ton) air conditioner – 3 Nos</p>
<p>12.</p>	<p>Tender No. 3404-3/2025 - Treadmill</p> <ul style="list-style-type: none"> a. Single Belt: With Custom thickness to Sports Footwear Testing b. Speed range: 40-50 kmph c. Forward/reverse operation d. Acceleration/Deceleration rate: 0-35 m/s² e. Elevation capability: 0 to + 30% grade f. Treadmill surface dimension: Length > 175cm, g. Width > 80cm h. Aluminum honeycomb treadmill frame i. Cold rolled steel sub-frame with levelling feet and wheel casters for transport j. Overall dimensions: 100L" x 52W" x ~15H" 	<p>59-62</p>	<p><i>Tender No. 3404-3/2025 – 3D instrumented treadmill</i></p> <ul style="list-style-type: none"> <i>a. Single Belt / Split Belt: With Custom thickness to Sports Footwear Testing.</i> <i>h. Aluminum honeycomb treadmill frame / Metal frame / any heavy-duty frame</i> <i>o. Centre / Front / Rear axis – Change of inline and decline</i> <i>p. Emergency stop button with harness support – Operator / Subject / Both</i> <p>Hardware Accessories <i>(The bidders are given option to bid without accessories a and b given below. However, the preference will be given to bidders who bid with accessories a and b and its integration)</i></p> <ul style="list-style-type: none"> a. Depth Cameras



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	<ul style="list-style-type: none"> k. Power requirements: 208-240V or 380-480V, 3 phase, 30amp l. Custom cable lengths and handrail configurations available m. Elevation capability: 0 to + 3% grade (non-incline model) n. -30% to +30% grade (incline model) o. Center axis Pivot– Change of Incline to Decline or vice versa max 10deg/sec. Grade range of ±15deg p. Emergency Stop button with harness support q. 10KVA UPS System 		<ul style="list-style-type: none"> b. Eye tracker (wearable)
<p>13.</p>	<p>Tender No. 3404-3/2025 - Treadmill – 4. Hardware Accessories</p>	<p>62</p>	<p>Tender No. 3404-3/2025 -Treadmill – 4. Hardware Accessories</p> <p>e. EMG and Physiological System</p> <ul style="list-style-type: none"> i. Centro – 1 ii. Quatro – 2 iii. Link - 1 iv. Vo2 Wireless - 1 v. Smo2 – 2 vi. ECG - 1 <p>f. Tower (2 ton) air conditioner – 2 Nos</p> <p>Note:</p> <ol style="list-style-type: none"> 1. The above said equipment may be bid along with treadmill Or Separately (EMD remains same) – It should integrate with the existing system i.e. 3D mocap, force plate, Isokinetic dynamometer and other physiological hardware. 2. The buyer has the discretion to buy as whole (Treadmill with EMG and physiological system or part (EMG and physiology system alone).



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14.	Tender No. 3404-6/2025 / Item – VI Portable force and muscle testing system with software and accessories 1. Portable force testing system 2. Hamstring muscle testing system	69	<p>1. Portable force testing system</p> <p>a. Hardware ii. Capacity per sensor – 80 kg -100 kg vi. Battery – min 10 hours of continuous usage or more</p> <p>2. Hamstring muscle testing system</p> <p>a. Hardware ii. Capacity per sensor – 80 kg - 100 kg vi. Battery – minimum 10 hours of continuous usage or more</p> <p>Note:</p> <p>i. Preference will be given to bidders who gives maximum software (Min. 10 years / Life time validity) and hardware warranty and update</p> <p>ii. Bidders combining both portable force testing and hamstring muscle testing in one system also welcome.</p>
15.	Tender No. 3404-6/2025 / Item – VI Portable force and muscle testing system with software and accessories	69	<p>Tender No. 3404-6/2025 / Item – VI Portable force and muscle testing system with software and accessories</p> <p>Sl. No 4: Portable force plates (1D/3D) – 1 pair</p> <p>i. Should be equipped with 4 transducers per platform</p> <p>ii. Weight: 15 kg minimum (each plate)</p> <p>iii. Max. force 2000 kg in each plate</p> <p>iv. Battery more than 10 hours at one charge</p> <p>v. System software should have min. 10 years validity / life time validity</p> <p>vi. Accuracy: within 0.1% of reading</p>



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			vii. Equipment should or with android 10.0 + and IOS 12.0 +
16.	Tender No. 3404-7/2025 / Item – VII Mocap system and accessories	73-78	Tender No. 3404-7/2025 / Item – VII Sl. No 1: Mocap system and accessories a. Hardware: IR cameras – 10 Nos + 1Hd video camera b. IR cameras (Both Indoor and Outdoor applications) c. Resolution: 8 Megapixels and above e. The system allows carrying out outdoor measurements under the direct sunlight. The software should have dedicated outdoor real-time data software filtering functionality easily activated by a single click (optional). Marker accuracy should be less than 0.01 mm d. All infrared cameras should be equipped with remotely controlled motorized optics for convenience of adjustments during outdoor use / manual adjustment. h.All infrared cameras should have high grade corrosion resistant die-cast aluminum housing (IP65/IP67). k. All infrared cameras should operate with the electronic / global frame shutter l. Each infrared camera should be equipped with a large, high-contrast OLED display showing camera number. e. Hardware – Camera system connectivity & camera cabling f. Camera cables should be equipped with POE



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		<p>g. The camera system should be mobile and easy to relocate, with cables 10 meters in length or more.</p> <p>e. The system should include 2 full sets of cables (1 set for permanent use in the main laboratory (Main Lab), 2nd set for use outside of the laboratory (Mobile Lab) / This is optional.</p> <p>iii. Hardware – Camera mounting</p> <p>a. Each camera shall be compatible to mount on a standard three-way tilt tripod head based on number of cameras.</p> <p>b. Super clamp which can be fixed on the cylindrical path of tripod (Based on camera numbers)</p> <p>d. The system should include a set of sturdy heavy-duty tripods, extendable to 2.62 m (based on number of cameras) for the practical convenience of the Mobile Lab.</p> <p>Deliverables: (Sl. No 1 to 10 is removed as it is already mentioned in the specifications) 11.Mocap suit (small and medium size)– each 2 Nos</p> <p>NOTE:</p> <p>e. The IR cameras should synchronize with the existing mocap camera system of the biomechanics lab, TNPESU for extended analysis of movement increasing the capture volume / (It is optional and the buyer has the discretion to decide on it).</p>
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			<p>g. The new mocap system should facilitate the integration of already existing mocap system with similar and lower features / (This is Optional and the buyer has the discretion).</p> <p>i. All the hardware should have a warranty period of 5 years along with software update and support system.</p> <p>Sl. No: 5</p> <p>v. Tower (2 ton) air conditioner – 3 Nos</p> <p>Note:</p> <p>iv. Sl No 1 and 5 should be bid together (mandatory).</p> <p>v. Sl. No 2,3,4 may be bid along with Sl. 1 and 5 or separately.</p> <p>vi. The preference will be given to mocap system which can be integrated with the existing system.</p> <p>vii. The mocap system should be integrated with force plate, EMG, 3D instrumented treadmill.</p> <p>viii. The mocap system should give automated test results (Optional).</p>
17.	Tender No. 3404-7/2025 / Item – VII Mocap system and accessories	73-78	<p>Tender No. 3404-7/2025 / Item – VII Mocap system and accessories</p> <p>Sl. No 2, 3 and 4 (Elastography and accessories, Portable muscle stiffness unit, and athlete management system respectively) may be bid along with Mocap system or separately (But the EMD remains the same).</p>
18.	Tender No: 3404-11/2025 3D foot scanner and accessories Item name: Computer accessories c.iPad Air	88	<p>Tender No: 3404-11/2025</p> <p>3D foot scanner and accessories</p> <p>Item name: Computer accessories</p> <p>c. iPad air is removed from requirement</p>
19.	Tender No: 3404-12/2025: Cardio and rehab station and accessories	89-96	<p>Tender No: 3404-12/2025: Cardio and rehab station and accessories</p> <p>Sl. No: 29 Flooring</p>



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	<p>Sl. No 29: Free weight Flooring The product thickness should be 25 mm or more. The dimension of the tile should be 490mm x 490mm or more. The tile should be made up of Styrene-Butadiene Rubber.</p> <p>Sl. No: 30 Sports Flooring</p>	<p>a. The product should include tiles of thickness should be 25 mm or more.</p> <p>b. The dimension of the tile should be 490 mm x 490 mm or more.</p> <p>c. The tile should be made up of Styrene-Butadiene Rubber.</p> <p>d. The product should also include sled track of at least 20 meters (Should blend and match with the other flooring surface)</p> <p>Sl. No. 30 is removed from requirement</p> <p>Sl. No: 31 - Audio system in the lab (with echo remover) – 1 unit</p> <p>Sl. No: 32 - Tower (2 ton) air conditioner – 3 Nos.</p> <p>Sl. No: 03: Integrated Multi-articulation assessment system (Item No: 3 Digital Grip Dynamometer)</p> <p>a. Push, Pull, grip, pneumatic dynamometer and digital goniometer</p> <p>b. The system should allow the integration of 5 sensors</p> <p>c. The system should support generation of pdf as well as CSV formats.</p> <p>d. Acquisition frequency should be minimum 200 Hz.</p> <p>e. Bluetooth range up to 20 meters</p> <p>f. Battery should last 10 hours per charge</p> <p>g. System software should be with life time validity</p>
20.	The bidders should keep the documents as per the order given the in the list of documents to be submitted template	

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LIST OF DOCUMENTS TO BE SUBMITTED BY THE BIDDER IN ORDER ALONG WITH TECHNICAL BID		
Sl. No	Description	Check box
1.	Application fee (DD)	
2.	EMD (DD)	
3.	Standard commercial term and conditions (Appendix - A)	
4.	Tender Acceptance letter (Appendix -B)	
5.	Authorised dealer letter	
6.	Undertaking by the bidder	
7.	PAN and GST number	
8.	EUC if any	
9.	Warranty certificate (5 years)	
10.	Product support certificate (10 years)	
11.	Customer reference (last five years)	
12.	Finance and statutory details	
13.	OEM or Vendor authorised by OEM authorisation certificate (10 years)	
14.	Authorised distributor certificate	
15.	Product approval certificate by any authorised body	
16.	Instrumented treadmill (working model and layout)	
17.	One page write up how you supports the high performance for sports post installation	
18.	List of deliverables	

Note: Please submit the bid with page number

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Technical Evaluation Scoring Model: PLEASE FILL IN THE SCORING TABLE (The bidders are asked to do self-scoring and mention the page number of supporting documents submitted against the criteria (Tick whichever the criteria is applicable to you and submit the supporting documents with page number)

Sl. No.	Criteria	Max. Score	Score
I. Technical Capability			
1.	Legal Structure	5	
	Private Limited / Partnership firm		3
	Public Limited		5
2.	Quality Certifications of the Products Provided	10	
	National Standards		5
	International Standards		10
3.	No. of technical people to be deputed exclusively for this project	5	
	4 to 5 persons		3
	Above 5 persons		5
II. Financial capability (INR)			
4.	Average annual turnover of the firm for the period 2021-2022, 2022-2023, 2023-2024	5	
	1 mark for minimum Rs.1 Crore and each additional crore will be given 1 mark to a maximum of 5 marks (i.e. 1 mark for 100 lakhs to 199 lakhs and 2 marks for 200 lakhs to 299 lakhs)		5
5.	Average annual turnover for providing biomechanics/Human Movement or sports science or Strength & Conditioning solutions for high performance sports to the other Government Academy / High Performance Centre / reputed Universities, for the preceding three accounting years between 2021-2022, 2022- 2023, 2023-2024.	5	
	1 mark for minimum 10 lakhs and each additional 10 lakhs will get 1 mark to a maximum of 5 mark		5
III. Specific Capability / Experience of the Bidder relevant to the assignment			
6.	Projects have been undertaken and successfully delivered so far in the last 3 years.	10	
	National level / International level (University / Sports training centers / Clinical and Rehabilitation / Any relevant organization) 1 mark for National level and 2 marks for international level to a maximum of 10 marks.		10
7.	Number of Years Experience in Similar Project	10	
	Min. 3 years		5
	More than 3 years to 5 years		7
	More than 5 years		10
	Total score (by the bidder)		

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