

## Detailed Bid Specifications

Reference: TAMU-ITB-1089  
Athlete Testing and Measurement Equipment

Item #	Item & Description	Qty	Unit	Unit Price	Extension	Delivery (Days)
	<p><b>**Please note:</b> This bid has been posted on the Electronic State Business Daily (ESBD) website: <a href="http://esbd.cpa.state.tx.us/">http://esbd.cpa.state.tx.us/</a> It is the bidder's responsibility to check this site for any addendum's that may be posted.**</p> <p>Texas A&amp;M University, TX is seeking bids for Athlete Testing and Measurement Equipment meeting the following terms; conditions and specifications as listed below.</p> <p><b><u>HUB Subcontracting Plan (HSP):</u></b></p> <p>It is the intention of the State of Texas, Texas A&amp;M University (TAMU), and Procurement Service at Texas A&amp;M to encourage the use of Historically Underutilized Businesses (HUB's) in our prime contracts, subcontracts and purchasing transactions. Texas A&amp;M initiatives through the Texas A&amp;M Department of Procurement Services are to assist our prime contractors and core suppliers to achieve these ends through race, ethnic and gender-neutral means. The goal of the attached HUB Subcontracting Plan (HSP) is to promote full and equal business opportunity for all business in Texas A&amp;M Contracting and Procurement. The following Texas, Texas Building and Procurement Commission, Commodity Codes(s) are applicable to this bid, and should be used for researching subcontracting opportunities on the TBPC's, Centralized Master Bidders List (CMBL) when the contract/vendor anticipates utilization of subcontractors. The CMBL is located on the TBPC's website at: <a href="http://www.tbpc.state.tx.us/">www.tbpc.state.tx.us/</a></p> <p>Commodity Code: 805-48</p> <p>The attached HSP subcontracting plan <b><u>**MUST**</u></b> be returned with the invitation for bid.</p> <p>Failure to fill-out the proper forms with supporting documentation if applicable and return properly executed form with your bid response will <b><u>**VOID**</u></b> your offer.</p>					

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	<p><b><u>Vendor HSP Requirements</u></b></p> <p><b><u>Subcontractor Selection Notification</u></b></p> <p>Vendor shall provide a notice to <b>all</b> selected subcontractors (HUB's and Non-HUB's) of their selection as a subcontractor for this awarded contract. The notice must specify at a minimum the contracting agency's name (<i>Texas A&amp;M</i>) and it's point of contact for the contract, the purchase order number, the subcontracting opportunity they (the subcontractor) will perform, the approximate dollar value of the subcontracting opportunity and the expected percentage of the total contract that the subcontractor will perform. A copy of the notice must also be sent to the Texas A&amp;M point of contact provided below no later than ten (10) working days after the contract is awarded and the purchase order is issued.</p> <p><b><u>Progress Assessment Report</u></b></p> <p>The HUB Subcontracting Plan (HSP) submitted with the bid response shall become a provision of the purchase order. The vendor cannot change a subcontracting plan prior to its incorporation into the purchase order. TAC 20.14 (5). Per the Texas Administrative Code Chapter 20.14, Texas A&amp;M requires the following:</p> <ul style="list-style-type: none"> <li>○ The vendor must submit a HUB Subcontracting Plan (HSP) Prime Contractor Progress Assessment Report (PAR) to Texas A&amp;M University on a monthly basis. The vendor will maintain business records documenting its compliance with the approved HSP and will submit a PAR to the Texas A&amp;M Department of Procurement Services no later than the 5<sup>th</sup> calendar day of the month until the purchase order has been paid in full. TAC 20.14 (d). <b>All PAR's shall be sent via e-mail to the following address: <a href="mailto:hubprogram@tamu.edu">hubprogram@tamu.edu</a> or fax 979.845.3800. Payment requests submitted without the PAR will not be processed.</b></li> <li>○ Changes may not be made to the HSP without prior review and approval from the Texas A&amp;M Department of Procurement Services. The vendor shall submit to the TAMU HSP point of contact provided below a revised HSP for each subcontracting opportunity to be modified.</li> </ul> <p>If the selected vendor subcontracts any of the work without complying with TAC 20.14 and without prior approval from the Texas A&amp;M Department of Procurement Services, the vendor will be deemed to have breached the purchase order and be subject to any remedial actions provided by Texas Government Code, Chapter</p>					

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	<p>2161, state law and TAC 20.14 (6). Texas A&amp;M will report nonperformance relative to its purchase order to Texas Procurement and Support Services in accordance with TAC 20.105, Subchapter F relating to the Vendor Performance and Debarment Program.</p> <p><b><u>PAR Requirements for Self-Performing</u></b></p> <p>The HUB Subcontracting Plan (HSP) submitted with the bid response shall become a provision of the purchase order. The vendor cannot change a subcontracting plan prior to its incorporation into the purchase order. TAC 20.14 (5). Per the Texas Administrative Code Chapter 20.14, Texas A&amp;M requires the following:</p> <ul style="list-style-type: none"> <li>○ <b>Vendors self-performing</b> must submit a HUB Subcontracting Plan (HSP) Prime Contractor Progress Assessment Report (PAR) to Texas A&amp;M University on a monthly basis. The vendor will maintain business records documenting its compliance with the approved HSP and will submit a PAR to the Texas A&amp;M Department of Procurement Services no later than the 5<sup>th</sup> calendar day of the month until the purchase order has been paid in full. TAC 20.14 (d). <b>All PAR's shall be sent via e-mail to the following address: <a href="mailto:hubprogram@tamu.edu">hubprogram@tamu.edu</a> . Payment requests submitted without the PAR will not be processed.</b></li> <li>○ Changes may not be made to the HSP without prior review and approval from the Texas A&amp;M Department of Procurement Services. The vendor shall submit to the TAMU point of contact provided below a revised HSP if determined subcontracting will be necessary.</li> </ul> <p>If the selected vendor subcontracts any of the work without complying with TAC 20.14 and without prior approval from the Texas A&amp;M Department of Procurement Services, the vendor will be deemed to have breached the purchase order and be subject to any remedial actions provided by Texas Government Code, Chapter 2161, state law and TAC 20.14 (6). Texas A&amp;M will report nonperformance relative to its purchase order to Texas Procurement and Support Services in accordance with TAC 20.105, Subchapter F relating to the Vendor Performance and Debarment Program.</p> <p>A copy of the PAR can also be found at the following link:<a href="http://www.window.state.tx.us/procurement/prog/hub/hub-subcontracting-plan/">http://www.window.state.tx.us/procurement/prog/hub/hub-subcontracting-plan/</a></p>					

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	<p><b>For questions about the HSP packet, please contact Patty Winkler at 979-845-4556 to discuss the HSP packet requirements.</b></p> <p><b><u>Site Visit:</u></b></p> <p>A site visit might be required. Contact TJ Marcum at 979-862-5455 to make arrangements for the site visit. Site visit location will be at the Texas A&amp;M University Athletic Department, College Station, TX. Bidders must make the site visit at their expense. For additional information please contact Marla Young, Buyer, at <a href="mailto:meyoung@tamu.edu">meyoung@tamu.edu</a>.</p> <p><b><u>Insurance Requirements:</u></b></p> <p>The successful vendor will be required per the indicated requirements in Attachment A to provide proof of insurance prior to beginning any work on the campus of Texas A&amp;M University, Galveston, TX. The vendor will be held strictly responsible to obtain all necessary certificates of insurance from all parties performing work on this project to meet all State; City and TAMU requirements.</p> <p>The successful vendor shall not commence work until all the insurance specified hereunder has been obtained and certificates of such insurance have been filed with and accepted by Texas A&amp;M University. Insurance coverage shall provide for a thirty day notice of cancellation or material change to the policy coverage and/or limits and the certificate of insurance enforce must include a notice that the policy or policies do contain these provisions. Acceptance of insurance certificates by Texas A&amp;M University shall not relieve or decrease the liability of the vendor. Unless otherwise specified, the vendor shall provide and maintain, until the work included in this bid is completed and accepted by Texas A&amp;M University, Galveston, TX.</p> <p><b><u>Award Criteria:</u></b></p> <p>The award shall be made based on the following "Best Value Criteria". Texas A&amp;M University reserves the right to consider the following and any other factors deemed necessary to evaluate the offer and determine the "Best Value" for the University.</p> <ul style="list-style-type: none"> <li>- Vendor's ability to meet the minimum specifications</li> <li>- The acquisition price</li> <li>- Delivery may be a factor</li> <li>- Experience/past experience with vendor</li> </ul>					

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	<ul style="list-style-type: none"> <li>- The quality; availability of services offered to required application</li> <li>- Quality of performance of previous services</li> </ul> <p>Texas A&amp;M University reserves the right to make the decision as to what products best meets the minimum specifications and which products best suits the needs of the University. Texas A&amp;M University decision is final.</p> <p>Texas A&amp;M University reserves the right to accept or reject any or all bids, to waive informalities and technicalities, to accept the offer considered to be the most advantageous to the University.</p> <p><b>Vendor must provide detailed specifications, brand name, manufacturer and model number of product they are bidding along with specifications and literature sheet. Failure to do so may result in the disqualification of your bid.</b></p> <p>*****</p> <p><b>ATTENTION ALL BIDDERS:</b></p> <p>Texas A&amp;M, Procurement Services is transitioning to an E-commerce system for all invitation for bids and purchase orders. We are asking all vendors to take a few moments and register as one of our vendors. This will allow you to respond to our bid invitations electronically as well as view other bid opportunities.</p> <p>Please visit the following website to register:  <a href="https://bids.scquest.com/apps/Router/PublicEvent?CustomerOrg=TAMU">https://bids.scquest.com/apps/Router/PublicEvent?CustomerOrg=TAMU</a></p> <p>If you have any questions in reference to registrations, please contact us at 979-845-2325.</p> <p>*****</p> <p>All invitation for bid documents not submitted electronically via the AggieBid system will only be accepted via the following methods:</p> <ul style="list-style-type: none"> <li>-Faxed to (979) 862-3383</li> <li>-Express Mail (FedEx, UPS, etc.)</li> <li>-US Postal Service</li> <li>-Hand Delivered</li> </ul> <p>At this time, no email responses are acceptable. If your response is received via email, your response may be disqualified.</p>					

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	<p>All invitation for bid documents not submitted electronically via the AggieBid system must be returned on our form.</p> <p>As a bidder responding to this invitation upon submission of your response, regardless of the format of your submission, you and the entity you represent are agreeing to the terms and conditions presented here as well as the TAMU terms and conditions located at <a href="http://purchasing.tamu.edu/media/123743/bidtamupdf">http://purchasing.tamu.edu/media/123743/bidtamupdf</a></p> <p>Physical Address:</p> <p>Texas A&amp;M University Procurement Services Agronomy Road College Station TX 77843-1477 Fax - 979-862-3383</p> <p>NOTE: If responding manually, please submit with your bid response a W9. This will allow us to enter your company into our bid system and include your response on the electronic tabulation.</p>					
1	<p>Athlete Measurement System. System rapidly measures the athlete height; reach height; wing span; and hand size.</p> <p><b><u>Specifications:</u></b></p> <ul style="list-style-type: none"> <li>- Accuracy to the 1/8<sup>th</sup> inch</li> <li>- Measurements are automatically recorded electronically and displayed mechanically on the measurement axis</li> <li>- Individual measurement range is as follows: <ul style="list-style-type: none"> <li>• Height: 56 to 86 inches</li> <li>• Reach Height: 84 to 115 inches</li> <li>• Wing Span: 60 to 96 inches</li> <li>• Hand Size: 7 to 13 inches</li> </ul> </li> <li>- Measurements are display data in the "NFL" format: <ul style="list-style-type: none"> <li>• Height Measurement – Four Digit Format</li> <li>• Reach Height: Displayed in ¼ inch increments</li> <li>• Wing Span: Displayed in ¼ inch increments</li> <li>• Hand Size: Displayed in ¼ inch increments</li> <li>• Measurements will be rounded to nearest increment. If exactly between two increments, the number is rounded</li> </ul> </li> </ul>	1	EA			

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	up - Reach Height / Wing Span / Athlete Height Measurement: <ul style="list-style-type: none"> <li>Athlete ID is entered and procedure started</li> <li>Athlete will be standing flat-footed underneath the height measurement system and the height will be obtained</li> <li>Athlete will then reach horizontally to obtain the wing span</li> <li>Athlete will then reach vertically to obtain the reach height</li> <li>Athlete will then extend hand and fingers vertically to the furthest extent possible to measure hand size</li> <li>Assuming all data was measure accurately, the "accept data button" will be pressed</li> </ul>					
2	Two Axis – Sub-Turf Force Plate. Custom engineered force plates for application are designed to measure the ground-based forces generated by the athlete in the vertical direction and the horizontal direction.  <b><u>Specifications:</u></b> <ul style="list-style-type: none"> <li>Force Plate for behind the start line:               <ul style="list-style-type: none"> <li>42 inches wide; 48 inches long</li> <li>½ inch aluminum top surface</li> <li>Four load cells (one in each corner)</li> <li>Three independent force measures: Left Vertical; Right Vertical</li> </ul> </li> <li>Force Plate for behind the start line:               <ul style="list-style-type: none"> <li>42 inches wide; 240 inches long</li> <li>½ inch aluminum top surface</li> <li>4 sets of load cells for vertical force measurement for each side (8 total)</li> <li>Two horizontal load cells</li> <li>10 independent force measures</li> </ul> </li> </ul>	1	EA			
3	Panasonic AW-HE2 Compact Professional PTZ Automated Camera System. Or Equivalent <ul style="list-style-type: none"> <li>Camera to be mounted to specified location designated by TAMU personnel</li> <li>Camera will be connected to an integrated computer system that provided time-synchronized force data for the athlete</li> <li>Videos will be saved with the athlete ID</li> </ul> <b><u>Specifications:</u></b> <ul style="list-style-type: none"> <li>Incorporates newly-developed 1/2.3-type full</li> </ul>	1	EA			

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	<p>HD MOS sensors and Digital Signal Processors (DSP) for high sensitivity, high resolution and superior video capture in a wide range of shooting conditions.</p> <ul style="list-style-type: none"> <li>- 1/2.3-type MOS</li> <li>- 22x Optical Zoom</li> <li>- HDMI Video Output, in addition to USB and microSD card built-in recording</li> <li>- Available upgrade to NDI HX – PoE+ for Power, Ultra Low Latency Audio/Video, Tally &amp; Control via a Single Cable</li> <li>- IP Connectivity for web interface and control plus PoE+ support for single cable power, streaming and camera control</li> <li>- Power Requirements: DC 12V (Supplied AC adaptor). DC 42 V to 57 V (PoE+ power supply)</li> <li>- Current Consumption: 1.2A (Supplied AC adapter). 0.4A (PoE+ power supply)</li> <li>- Ambient Operating Temperature: 32°F to 104°F</li> <li>- Storage Temperature: -4°F to 122°F</li> <li>- Allowable Humidity Ranges: 20% to 90% (no condensation)</li> <li>- Mass: Approx. 1.5kg (3.30 lbs)</li> <li>- Dimensions (W x H x D): 6-5/16" x 7-41/128" x 6-17/32" (excluding protrusions, direct ceiling mount bracket)</li> <li>- Controller Supports*1: AW-RP50, AW-RP120G, AK-HRP200G</li> <li>- Power: DC 12 V IN, PoE+ (IEEE802.3 at standard)</li> <li>- Mic/Line Input: <ul style="list-style-type: none"> <li>• Stereo mini-jack ( 3.5mm)</li> <li>• input impedance: approx. 2kΩ (unbalanced)</li> <li>• Supported microphones: Stereo Mic (plug-in power, on/off switching via menu)</li> <li>• Supplied Voltage: 2.5 V ± 0.5 V</li> <li>• Mic Input Level: -60 dBV ± 3 dBV (Line Input)</li> <li>• Input Level: -10 dBV ± 3 dBV</li> </ul> </li> <li>- Output Video   HDMI: HDMI Connector. *HDCP is not supported. * VIERA Link is not supported</li> <li>- Input/Output Connector   LAN: LAN Connector for IP Control (RJ-45) Equipped with straight/crossover cable auto detection function</li> <li>- Input/Output Connector   RS-232C: Mini DIN 8-pin (IN) Mini DIN 8-pin (OUT)</li> <li>- Input/Output Connector   RS-422: Control in RS422A (RJ-45)</li> <li>- Input/Output Connector   USB: Mini-B port</li> <li>- Input/Output Connector   SD Card: MicroSD</li> </ul>					



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	card slot - Imaging Sensors: 1/2.3-type MOS - Lens: Motorized 22x zoom, F1.6 to F4.3 - Focus: Switching between auto and manual - Focus Distance: <ul style="list-style-type: none"> <li>Entire zooming range: 1.2 m (3.94 ft)</li> <li>Wide end: 10 cm</li> </ul> - Color Separation Optical System: On-chip color filter system - Minimum Illumination   59.94 Hz: 0.7 lx; 0.35 lx - Horizontal Resolution: 1000 TV lines Typ (Center area) - Gain Selection*2: Auto; Off; 6 dB; 12 dB; 18 dB; 24 dB - Electronic Shutter Speed   During Full Auto: 1/30 to 1/2000 [59.94 Hz]; 1/25 to 1/2000 [50 Hz] - Electronic Shutter Speed   During Auto: 1/60 to 1/2000 [59.94 Hz]; 1/50 to 1/2000 [50 Hz] - Electronic Shutter Speed   During Manual: 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 [59.94 Hz]; 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 [50 Hz] - Synchro Scan: <ul style="list-style-type: none"> <li>59.94 Hz : 59.94 Hz to 660.09 Hz</li> <li>50 Hz : 50.00 Hz to 570.12 Hz</li> </ul> - Gamma: Off, Normal (Low, Mid, High), Cinema - White Balance: AWB A, AWB B, ATW, 3200K, 5600K, VAR (2400K to 9900K) - Chroma Amount Variability: ±3 step - Scene File: Full Auto, Manual1, Manual2, Manual3 - Output Format   HD: <ul style="list-style-type: none"> <li>1080: 59.94p/50p</li> <li>1080: 59.94i/50i</li> <li>1080: 29.97p/25p</li> <li>1080: 29.97PsF/25PsF</li> <li>720: 59.94p/50p</li> </ul> - Synchronization System: Internal Synchronization - USB Connection: *This may vary depending on the operating environment - Video Output: USB Video Class Ver1.0 - Video Compression Format: MPEG-4 AVC/H.264 High Profile - Resolution: 1920 x 1080, 1280 x 720, 640 x 360 - Frame Rate: max 30 fps (system frequency 59.94 Hz); max 25 fps (system frequency 50 Hz) - Audio Output: USB Audio Class Ver1.0					

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	<ul style="list-style-type: none"> <li>- Audio Compression Format: AAC-LC (48 kHz, 16 bit, 2 ch, 128 kbps)</li> <li>- Supported Models: Devices standardly equipped with a USB 2.0 compatible port</li> <li>- Installation Method: Stand alone or suspended</li> <li>- Pan/Tilt Operation Speed: Max. speed during preset: 300°/s. Max. speed during manual: 90°/s</li> <li>- Panning Range: ±175°</li> <li>- Tilting Range: -30° to 90°*5</li> <li>- Quietness: During preset: NC40 or less. During manual: NC35 or less</li> <li>- AW Protocol Connecting Cable: LAN cable*6, max. 1000 m</li> <li>- Standard Protocol Connecting Cable: Mini DIN 8-pin cable, male</li> <li>- SD Card Type: Micro SDHC ( 4 GB to 32 GB), Micro SDXC (64 GB to 128 GB), Speed class 10 or higher</li> <li>- System Frequency: 59.94 Hz/50 Hz</li> <li>- SD Card Recording: MPEG-4 AVC le standard compliant (.MP4)</li> <li>- Recording Format: 1920 x 1080/59.94p, 1920 x 1080/50p, 1920 x 1080/29.97p, 1920 x 1080/25p, 1280 x 720/59.94p, 1280 x 720/50p, 1280 x 720/29.97p, 1280 x 720/25p</li> <li>- Resolution   JPEG: VGA (640 x 360), QVGA (320 x 180) max. 30 fps. 1920 x 1080, 1280 x 720, 640 x 360, 320 x 180 max. 30 fps</li> <li>- Resolution   H.264: 1920 x 1080, 1280 x 720, 640 x 360, 320 x 180 max. 60 fps</li> <li>- Supported Protocol   IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, RSP, RTP, RTP/RTCP, FTP, DHCPv6, DNS, NTP, ICMPv6 (MLD), RSTPoverTCP, RTSPoverHTTP, SSL (TLS), MultiCast/UniCast</li> <li>- i-OS, Android Support: JPEG image display</li> <li>- Accessories: <ul style="list-style-type: none"> <li>• Mount bracket for installation surface (Hanging*7 / Desktop): 1</li> <li>• Drop-prevention wire (already attached to the unit): 1</li> <li>• Bracket mounting screws (Bind-Head) M4 x 10 mm: 4</li> <li>• Main unit mounting screw (with at washer, spring washer) M3 x 6 mm: 1</li> <li>• Power cable: 1</li> <li>• AC adapter: 1</li> </ul> </li> </ul>					
4	Installation; Delivery; and Assembly as per the attached terms and conditions.	1	LOT			
	<b>TOTAL</b>					