



## IFB No: 4083

**MISSISSIPPI DEPARTMENT OF INFORMATION TECHNOLOGY SERVICES**  
**3771 Eastwood Drive**  
**Jackson, Mississippi 39211**  
**(601) 432-8000**

**INVITATION:** Sealed bids, subject to the conditions herein stated and attached hereto, will be received at this office **until 3:00 p.m. Central Time on Friday, July 13, 2018** and then publicly opened for furnishing the system and services as described below for the Mississippi Department of Public Safety, Mississippi Crime Lab.

### DESCRIPTION

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For the acquisition of a 3D Laser Scanning and Imaging system for the Mississippi Department of Public Safety, Mississippi Crime Lab (MCL).

#### Bidder Information

- Attachment A: Bid Form
  - Attachment B: Bid Response
  - Attachment C: Product Performance Specifications
  - Attachment D: Reference Form
- 

Bidder must submit bid and attachments to:

Attn: Jeannie Williford  
Technology Consultant  
Dept. of Information Technology Services  
3771 Eastwood Drive  
Jackson, MS 39211  
(601) 432-8052

To prevent opening by unauthorized individuals, your bid should be placed in a sealed envelope and plainly identified as follows:

SUBMITTED IN RESPONSE TO INVITATION FOR BID NUMBER 4083.

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Craig P. Orgeron, Executive Director

## **Attachment A Bid Form**

### **A. General Terms and Provisions**

1. Bidders are expected to examine all documents, forms, specifications, standard provisions, special provisions and all instructions. Failure to do so will be at the bidder's risk.
2. Any bid not received in writing at this office by the date and time specified will be declared a late bid. The State will not be responsible for any delays in delivery. It is solely the responsibility of the bidder that bids reach the opening on time. Any bid received after closing time will be returned unopened.
3. Bids or alterations by fax, e-mail or phone will not be accepted.
4. All bid openings are open to the public. The ITS staff will read the name of bidder responding, along with the bid amount.
5. All disclosures of bid information to interested parties will be made in compliance with ITS policies and procedures established in accordance with the Mississippi Public Records Act of 1983 defined in Section 25-61-1 et seq. of the Mississippi Code.
6. No negotiations, decisions, or actions shall be executed by any bidder as a result of any discussions with any state employee. Only transactions which are in writing from ITS may be considered official.
7. ITS reserves the right to reject any and all bids and to waive any defect or informality in any bid or bid procedure.
8. Bidder must provide three (3) verifiable references for projects of similar size and scope. Required information includes name, address, telephone number, and length of time the account has been a reference. A Reference Form for providing reference information is included in Attachment D. The Bidder must make arrangements in advance with the account references so that they may be contacted at the Project team's convenience without further clearance or Bidder intercession. Failure to provide this information in the manner described may subject the Bidder's proposal to being rated unfavorably relative to these criteria or disqualified altogether at the State's sole discretion.

References should be based on the following profiles and be able to substantiate the following information from both management and technical viewpoints:

- a. The reference installation product/service must be configured similarly or identically to this IFB; and
  - b. The reference installation must have been operational for at least six (6) months.
9. All bid material submitted in writing shall become the property of the State of Mississippi.
  10. Expenses for the development and delivery of bids are entirely the responsibility of the bidder and shall not be chargeable to the State.
  11. All submitted bids must show the net bid price after any and all allowable discounts have been deducted.

## **Attachment A Bid Form**

12. Prices are to be F.O.B. Destination and should include applicable freight charges.
13. State sales tax and federal excise taxes shall not be included as the MCL is tax exempt for materials sold directly to them.
14. When errors are found in the extension of bid prices, the unit price will govern. Bids having erasures or corrections must be initialed in ink by the bidder.
15. Unless otherwise indicated, it is understood and agreed that any item offered or shipped on this bid shall be NEW and in FIRST CLASS CONDITION, that all containers shall be new and suitable for storage or shipment and that prices include standard commercial packaging for the items shipped.
16. The successful bidder will immediately replace missing or damaged items and will be responsible for making any and all claims against carriers.
17. Bidder certifies that all material, equipment, etc., contained in the bid meets all Occupational Safety and Health Act (OSHA) requirements.
18. Upon award, the terms, provisions, and specifications of IFB 4083 will become the **Contract Document**. The Bidder's signature on the Bidder Certification (Page 10) constitutes agreement to the terms, provisions, and specifications contained herein. Bidders who take exception must submit a sample vendor contract for consideration with their bid response; otherwise this IFB, Bidder's bid response, and MCL's purchase order will act as the contract.

### **B. Format and Content of Bid**

1. The Bidder is required to submit three (3) identical copies of his bid.
2. The Bidder should note that original signatures are required on each copy of the bid.
3. The Bidder must complete all forms included in this IFB in their entirety.
4. The State reserves the right to reject bids from bidders who submit incomplete bids.

### **C. Clarifications Prior to Bid Opening**

Clarifications or questions must be submitted in writing to Jeannie Williford no later than 3:00 on Tuesday, June 26, 2018. Clarifications or questions may be delivered by hand, via mail, by e-mail to [jeannie.williford@its.ms.gov](mailto:jeannie.williford@its.ms.gov), or by fax to (601)713-6380. The response to all timely submitted clarifications or questions will be posted on the ITS website by close of business on Friday, July 6, 2018.

### **D. Clarifications and Updates After the Bid Opening Date and Time**

Bid clarifications and updates submitted after the bid opening date and time will be accepted or rejected at the sole discretion of ITS. ITS will accept no price increases for a 90-day period after the bid opening. However, the State will always take advantage of price decreases. ITS will consider updates in the evaluation and selection of lowest bid only if: (a) The update provided is in effect nationally and has been publicly announced; and (b) the

## **Attachment A Bid Form**

update is received early enough in the evaluation process to allow adequate time for re-evaluation. Bidders must follow the procedure outlined below in submitting updates to bids:

1. The Bidder must submit a statement outlining the circumstances under which he is submitting a clarification or update to the original bid.
2. The Bidder must submit updates in three (3) copies and in the format of the specifications of only those pages in the bid document that should replace the old pages or that should be added. The revised pages must be marked as a bid clarification or update, dated, and page numbered.

### **E. Special Provisions**

1. **Scope:** The laser scanning system will provide to MCL first responders and investigators the ability to scan crime scenes and disaster scenes to record and preserve a 360 degree full field of view that accurately captures all physical aspects of the scene, while calculating their relationship to one another. The proposed system should offer a full featured, 3D pulsed, dual axis compensated laser scanner, along with the latest versions of the related scene manipulation software applications, and should include all necessary accessories.

The bid response should include all related equipment, hardware, software, cabling, connections, and all other devices necessary for the system to function at its highest and best 3D imaging and forensic scene reconstruction capabilities. Further, the bid response should include all applicable licenses, training, maintenance, support, and warranties.

2. Brand names are for reference purposes and serve to establish a standard of quality. Vendors may bid on specified brands or approved equals. The MCL is seeking a system equal to the FARO 3D Laser Scanner Focus S 150, the latest versions of the FARO scene manipulation softwares, and related FARO accessories. The determination as to whether any product or service is or is not equal shall be made by MCL and such determination shall be final and binding upon all bidders.
3. Attachment B constitutes the Bid Response form. It contains the overall specifications and descriptions for the 3D Laser Scanner, related application softwares, licenses, accessories, training, maintenance, support, and warranties. Attachment B presents product and service specifications and descriptions known at the time of this invitation for bid. It is the Bidder's responsibility to bid on the latest versions of specified products and services, or equivalents, available at the time of Bidder's response. It is the Bidder's responsibility to add to the bid form any unforeseen product, component, or service necessary for the highest and best performance of the system sought by the MCL.

Bidders must submit pricing for bid items in Attachment B - Bid Response form, and must provide the make and model of the item being bid. Bid items must be equivalent to the product description for each listed item. Failure to include the cost for any product or services required for proper operability may result in Bidder providing such products or services at no cost to the State or face disqualification. The State reserves the right to purchase all, a portion of, or none of the bid items.

## Attachment A Bid Form

4. Attachment C is a performance specification sheet published by FARO for the Focus S 150 Laser Scanner and is provided as a reference. It serves to set the minimum standards for the 3D laser scanner sought by the MCL. Attachment C contains specifications known at the time of this invitation to bid. It is the Bidder's responsibility to bid on the latest version of the FARO Focus S 150 Laser Scanner, or its equal, offered at the time of Bidder's response.
5. MCL expects delivery of the equipment to the MCL, to the attention of Steven Symes, at 215 Allen Stuart Drive, Pearl, MS 39208-6060.
6. For each proposed product or service, Bidder's response must include the appropriate descriptive literature describing product performance specifications and features.
7. Vendors may be required to furnish evidence in writing that they maintain permanent places of business and have adequate equipment, finances, and personnel to furnish the item or service offered satisfactorily and expeditiously.
8. Payments to the awarded Vendor for all goods and services acquired under this IFB by state agencies that make payments through the Mississippi State Government's Enterprise Resource Planning (ERP) solution ("MAGIC") will be made electronically, via deposit to the bank account of the Vendor's choice. The awarded Vendor must enroll and be activated in PayMode™, the State's current vehicle for sending and receiving electronic payments, prior to receiving any payments from state agencies. There is no charge for a Vendor to enroll or receive payments via PayMode. For additional information on PayMode, including registration instructions, Vendors should visit the following website: <http://portal.paymode.com/ms/>. Vendors may also request assistance from the Mississippi Management and Reporting System (MMRS) Call Center regarding PayMode registration by contacting [mash@dfa.ms.gov](mailto:mash@dfa.ms.gov).
  - a. For state agencies that make payments through MAGIC, the awarded Vendor is required to electronically submit all invoices for goods and services acquired under this IFB, along with appropriate supporting documentation, as directed by the State.
  - b. MAGIC Vendor Code: Any Vendor who has not previously done business with the State and has not been assigned a MAGIC Vendor code should visit the following link to register:  
[https://sus.magic.ms.gov/sap/bc/webdynpro/sapsrm/wda\\_e\\_suco\\_sreg?sap-client=100](https://sus.magic.ms.gov/sap/bc/webdynpro/sapsrm/wda_e_suco_sreg?sap-client=100)

**Attachment A  
Bid Form**

**F. Project Schedule**

<b>Task</b>	<b>Date</b>
First Advertisement Date for IFB	Tuesday, June 12, 2018
Second Advertisement Date for IFB	Tuesday, June 19, 2018
Deadline for Vendor's Written Questions	Tuesday, June 26, 2018 at 3:00 pm Central Time
ITS Addendum with Vendor's Questions and Answers Posted to ITS Web Site	Friday, July 6, 2018
Proposals Due	Friday, July 13, 2018 At 3:00 pm Central Time
Proposal Evaluation	Monday, July 16, 2018 - Wednesday, July 18, 2018
Notification of Award	Thursday, July 19, 2018

**Attachment B  
Bid Response**

Item	Product Description	Cost	Make/Model Bid
<b>A.</b>	One FARO 3D Laser Scanner Focus S 150 or equivalent, as described below:		
1.	<p>One Focus S 150 shipped with HDR photography, GPS, compass, altimeter (barometer), dual-axis compensator, WLAN, accessory bay, IP rating 54, on-site compensation functionality; one battery power block, one battery power dock, one 90W power supply, one optic cleaning fluid, three optic cleaning tissues, one SD card reader, one 32GB SD card, one SD card cover, one Allen wrench, one rugged transport case, calibration certificate and one quick start guide.</p> <p>Bid product must equal the performance specifications of the FARO 3D Laser Scanner Focus S 150 as described in Attachment C or the most recent version of the same.</p> <p>Bid response should include three years standard manufacturer's warranty which provides re-certification of the FARO Focus S 150 once a year at a FARO service center (or brand equivalent), free repair of damages which are not caused by the user, technical Hotline support, and return shipping charges.</p>		
<b>B.</b>	One 3D SW SC SCENE: Bid products to equal FARO 3D SW SC SCENE, as described below:		
1.	<p>3D SW SC SCENE (most recent version) software is designed for viewing, administrating, and working on extensive 3D scan points. It allows the user to manipulate raw 3D scan points and acquire with analysis functions, initial point cloud data comprehension. It is a complete workspace creation and manipulation tool. It contains all functionality of FARO Scout, plus functions required for scan placement.</p> <p>Bid Response should include one year of standard warranty which provides twelve months of maintenance for the FARO 3D SW SC SCENE software or equivalent. Warranty includes twelve months of product updates and upgrades (as available) and top tier technical support. Includes digital download.</p>		

**Attachment B  
Bid Response**

<b>Item</b>	<b>Product Description</b>	<b>Cost</b>	<b>Make/Model Bid</b>
<b>C.</b>	<p>3D SW SC SCENE Dongle; Hard lock (USB Dongle) for one SCENE single user license.</p> <p>Bid product to equal FARO 3D SW SC SCENE Dongle.</p>		
<b>D.</b>	<p>One FARO Zone 3D Advanced; Bid product to equal the most recent version of the FARO Zone 3D Advanced product available at the time of the bid response. The specifications known at the time of publication of this IFB are described below:</p>		
1.	<p>Most recent version of FARO Zone 3D Advanced, but no version earlier than 2018. It is used to create 2D and 3D scene diagrams and animations, perform crash and crime scene analysis, and create courtroom presentations. It opens diagrams created with other FARO Forensics software. It imports point clouds captured by drones and laser scanners and directly opens SCENE software projects.</p> <p>Bid Response should include one year of standard warranty which provides twelve months of maintenance for the FARO Zone 3D or equivalent software. Warranty includes product updates and upgrades (as available) and top tier technical support. Includes digital download.</p>		
<b>E.</b>	<p>Training: Bid Product to equal FARO on-site training as described below:</p>		
1.	<p>Five days of on-site, upgraded, customer training for five individuals.</p> <p>Training should include forensic applications and must be performed by industry experts. Training should cover all associated hardware, software, and any offered customized training for MCL forensic applications.</p>		
<b>F.</b>	<p>Accessories - FocusS150 Laser Scanner; Bid products to equal the following specifications.</p>		
1.	<p>3D AC LS Focus S Battery Power Block; Power Block battery for FARO Focus S and Scan Localizer.</p> <p>Bid response should include any applicable manufacturer's warranty and maintenance.</p> <p><i>This battery power block is in addition to the one included with the Focus S 150 Laser Scanner.</i></p>		



**Attachment B  
Bid Response**

<b>Item</b>	<b>Product Description</b>	<b>Cost</b>	<b>Make/Model Bid</b>
2.	3D AC LS Carbon Fiber Tripod; High-level carbon fiber tripod for Focus 3D X 330 and Focus 3D X 130  Bid response should include any applicable manufacturer's warranty and maintenance.		
3.	80mm Koppa Target Set with Trajectory Rods  Combination set of twelve 80mm targets with: a. Six (6) magnetic base targets b. Six (6) trajectory mount c. Six (6) 6 ¼" x 10" aluminum, magnetic base stand-off rods d. Shipped in plastic storage crate  Bid response should include any applicable manufacturer's warranty and maintenance.		
4.	3D AC LS FARO Quick Release – attaches laser scanner to the FARO tripod; quick release is suitable for all Generation V8 FARO Laser Scanners.  Bid response should include any applicable manufacturer's warranty and maintenance.		
5.	Bid should include all necessary cables and/or connectors for optimum operation, regardless of whether or not they are specified in this IFB.  Bid response should include any applicable manufacturer's warranty and maintenance.		
	<b>SUBTOTAL</b> <b>Bid Products, Services, and Warranty/Maintenance</b>		
<b>G.</b>	<b>Extended Warranty/Maintenance - Software</b>		
1.	FARO 3D SW SC SCENE or equivalent (most recent version)  Bid response should include warranty/maintenance for years two and three. Includes product updates and upgrades (as available) and top tier technical support. Includes digital download.		
	a. Warranty/Maintenance for Year One		Included
	b. Warranty/Maintenance Year Two		
	c. Warranty/Maintenance Year Three		

**Attachment B  
Bid Response**

<b>Item</b>	<b>Product Description</b>	<b>Cost</b>	<b>Make/Model Bid</b>
2.	FARO Zone 3D Advanced or equivalent (most recent version):  Bid response should include warranty/ maintenance for years two and three. Includes product updates and upgrades (as available) and top tier technical support. Includes digital download.		
	a. Warranty/Maintenance for Year One	Included	
	b. Warranty/Maintenance for Year Two		
	c. Warranty/Maintenance Year Three		
<b>SUBTOTAL – EXTENDED WARRANTY/MAINTENANCE</b>			
<b>BID RESPONSE GRAND TOTAL</b>			

**BIDDER CERTIFICATION**

The undersigned has carefully examined IFB #4083, including all terms, provisions, and specifications affecting the cost and performance of the products and services required by the MCL.

*We hereby propose to furnish the products and services described in IFB 4083 as offered in our bid response.*

**Company Name:** \_\_\_\_\_

**Authorized Signature:** \_\_\_\_\_

**Name:** \_\_\_\_\_

**Title:** \_\_\_\_\_

**Date:** \_\_\_\_\_

# Attachment C

## Performance Specifications for FARO Focus S 150

### Performance Specifications

**Bidders: See Specifications for FARO Focus S 150**

	Focus <sup>®</sup> Series S 350   S 150   S 70	Focus <sup>™</sup> Series																																											
<b>Ranging Unit</b>																																													
Ambiguity Interval	614m for 122 to 488kpts/s 307m for 976 kpts/s	Not specified																																											
<b>Range<sup>1</sup></b>																																													
90% Reflectivity (White)	0.6-350m   0.6-150m   0.6-70m	0.6 - 70m																																											
10% Reflectivity (Dark-Gray)	0.6-150m   0.6-150m   0.6-70m	0.6 - 70m																																											
2% Reflectivity (Black)	0.6- 50m   0.6- 50m   0.6-50m	0.6 - 50m																																											
<b>Ranging Noise<sup>2</sup></b>																																													
	<table border="1" style="font-size: small;"> <tr> <th>10m</th> <th>10 noise reduction<sup>3</sup></th> <th>25m</th> <th>25 noise reduction<sup>3</sup></th> <th>10m</th> <th>10 noise reduction<sup>3</sup></th> <th>25m</th> <th>25 noise reduction<sup>3</sup></th> </tr> <tr> <td colspan="8" style="text-align: center;">in mm</td> </tr> <tr> <td>90% Reflectivity (White)</td> <td>0.3</td> <td>0.15</td> <td>0.3</td> <td>0.15</td> <td>0.7</td> <td>0.4</td> <td>0.7</td> <td>0.4</td> </tr> <tr> <td>10% Reflectivity (Dark-Gray)</td> <td>0.4</td> <td>0.2</td> <td>0.5</td> <td>0.25</td> <td>0.8</td> <td>0.4</td> <td>0.8</td> <td>0.4</td> </tr> <tr> <td>2% Reflectivity (Black)</td> <td>1.3</td> <td>0.65</td> <td>2.0</td> <td>1</td> <td>1.5</td> <td>0.8</td> <td>2.1</td> <td>1.1</td> </tr> </table>	10m	10 noise reduction <sup>3</sup>	25m	25 noise reduction <sup>3</sup>	10m	10 noise reduction <sup>3</sup>	25m	25 noise reduction <sup>3</sup>	in mm								90% Reflectivity (White)	0.3	0.15	0.3	0.15	0.7	0.4	0.7	0.4	10% Reflectivity (Dark-Gray)	0.4	0.2	0.5	0.25	0.8	0.4	0.8	0.4	2% Reflectivity (Black)	1.3	0.65	2.0	1	1.5	0.8	2.1	1.1	
10m	10 noise reduction <sup>3</sup>	25m	25 noise reduction <sup>3</sup>	10m	10 noise reduction <sup>3</sup>	25m	25 noise reduction <sup>3</sup>																																						
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90% Reflectivity (White)	0.3	0.15	0.3	0.15	0.7	0.4	0.7	0.4																																					
10% Reflectivity (Dark-Gray)	0.4	0.2	0.5	0.25	0.8	0.4	0.8	0.4																																					
2% Reflectivity (Black)	1.3	0.65	2.0	1	1.5	0.8	2.1	1.1																																					
Measurement Speed (pts/sec)	122,000 / 244,000 / 488,000 / 976,000	122,000 / 244,000 / 488,000																																											
Ranging Error <sup>4</sup>	±1mm	±3mm																																											
Angular Accuracy <sup>5</sup>	19 arcsec for vertical/horizontal angles	Not specified																																											
3D Position Accuracy <sup>6</sup>	10m: 2mm / 25m: 3.5mm	Not specified																																											
<b>Color Unit</b>																																													
Resolution	Up to 165 megapixel color																																												
High Dynamic Range (HDR)	Exposure bracketing 2x, 3x, 5x																																												
Parallax	Minimized due to co-axial design																																												
<b>Deflection Unit</b>																																													
Field of View (Vertical//Horizontal)	300° / 360°																																												
StepSize (Vertical/Horizontal)	0.009° (40,960 3D-Pixel on 360°) / 0.009° (40,960 3D-Pixel on 360°)																																												
Max. Vertical Scan Speed	97Hz																																												
<b>Laser (Optical Transmitter)</b>																																													
Laser Class	Laser class 1																																												
Wavelength	1550nm																																												
Beam Divergence	0.3mrad (1/e)																																												
Beam Diameter at Exit	2.12mm (1/e)																																												
<b>Data Handling and Control</b>																																													
Data Storage	SD, SDHC <sup>™</sup> , SDXC <sup>™</sup> ; 32GB Card																																												
Scanner Control	Via touchscreen display and wlan connection. Access by mobile devices HTML5																																												
<b>Interface Connection</b>																																													
WLAN	802.11n (150Mbit/s), as access point or client in existing networks																																												

	Focus <sup>®</sup> Series S 350   S 150   S 70	Focus <sup>™</sup> Series
<b>Integrated Sensors</b>		
Dual Axis Compensator	Performs a leveling of each scan with an accuracy of 19 arcsec valid within ±2°	
Height Sensor	Via an electronic barometer the height relative to a fixed point can be detected and added to a scan	
Compass <sup>8</sup>	The electronic compass gives the scan an orientation.	
GNSS	Integrated GPS & GLONASS	
On-Site Compensation	Creates a current quality report and provides the option to improve the devices compensation automatically	—
Accessory Bay	The accessory bay is located on top of the laser scanner and is used to connect versatile accessories to the scanner	—
Real-Time, On-Site Registration in SCENE	Connects to SCENE via WiFi. Processing of scan data, registration and creation of overview map in SCENE in real-time	—
<b>General Specifications</b>		
Power Supply Voltage:	19V (External Supply), 14.4V (Internal Battery)	
Power Consumption	15W Idle, 25W Scanning, 80W Charging	
Battery Service Life	4.5 Hours	
Operating Temperature	-5° - 40 °C	
Extended Operating Temperature <sup>9</sup>	-20° - 55°C	
Storage Temperature	-10° - 60°C	
Ingress Protection (IP) Rating Class	IP54	
Humidity Resistance	Non-Condensing	
Weight incl. Battery:	4.2kg	
Size/Dimensions:	230 x 183 x 103mm	
Maintenance/Calibration	Annual	



<sup>1</sup> For a Lambertian scatterer. <sup>2</sup> Ranging noise is defined as a standard deviation of values about the best-fit plane for measurement speed of 122,000 points/sec. <sup>3</sup> A noise-reduction algorithm may be activated by averaging raw data. <sup>4</sup> Ranging error is defined as a systematic measurement error at around 10m and 25m. <sup>5</sup> On-site compensation required. <sup>6</sup> For distances larger 25m add 0.1mm/m of uncertainty. <sup>7</sup> 2x/50°, homogeneous point spacing is not guaranteed. <sup>8</sup> Ferromagnetic objects can disturb the earth magnetic field and lead to inaccurate measurements. <sup>9</sup> Low temperature operation: scanner has to be powered on while internal temperature is at or above 15°C; high temperature operation: additional accessory required, further information on request | All accuracy specifications are one sigma, after warm-up and within operating temperature range; unless otherwise noted. Subject to change without prior notice.

For more information, call 800.736.0234 or visit [www.faro.com](http://www.faro.com)

© 2017 FARO | FARO is a registered trademark of FARO Technologies, Inc. in the United States and other countries.



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**Attachment D  
Reference Form**

Complete three (3) Reference Forms

Contact Name:	
Company Name:	
Address:	
Phone #:	
E-Mail:	
Description of product/services/project, including start and end dates:	