**SMALL BUSINESS INNOVATION RESEARCH**

**phase ii statement of objectives**

**for**

**Remote Sniper Heads Up Display**

**SOCOM213-D008**

**21 July 2021**

I. **INTERNATIONAL TRAFFIC AND ARMS REGULATION:** The technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), which controls the export and import of defense-related material and services. Offerors must disclose any proposed use of foreign nationals, their country of origin, and what tasks each would accomplish in the statement of work in accordance with section 5.4.c.(8) of the solicitation. Additionally, Offerors will describe compliance mechanisms offerors have in place or will put in place to address any ITAR issues that arise during the course of agreement administration.

II. **BACKGROUND**:

The Special Operations Forces (SOF) Sniper is faced with a dynamic battlefield and evolving enemy. SOF has recently began fielding 7-35 power scopes in conjunction with the highly accurate, long range MK22 Advanced Sniper Rifle (ASR) weapon system, as well as the continued fielding of the existing family of sniper rifles and designated marksmen rifles. A light weight, compact, rifle-mounted heads up display (HUD) is needed in order for the SOF Sniper to maintain the lethal advantage. A HUD that puts real-time information from the LA-24/PEQ to the operator’s non-shooting eye for rapid engagement of multiple targets is required.

III. **OVERALL OBJECTIVE:**

The objective of this Statement of Objectives (SOO) is to develop applied research toward an innovative capability to allow operators to rapidly receive live ballistic information from the LA-24/PEQ and engage multiple targets. The testing and demonstration will contain scenarios, environments, and test objectives to demonstrate program and operational objectives.

IV. **REQUIREMENTS:**

1. **General:** The objective of this topic is to develop, demonstrate, and deliver twelve (12) prototype RSHUD units that will allow operators to rapidly receive live ballistic information from the LA-24/PEQ and engage multiple targets. The intent of this optic is to provide a compact Heads Up Display to the operator that will not interfere with the operation of the weapon, LA-24, or other optics and will provide the operator with ballistic information to improve situational awareness. This capability shall meet the requirements in the description below.
	1. **Detailed Requirements:** The Contractor shall design, develop, fabricate, test, demonstrate, and deliver the twelve (12) prototype RSHUD units the meet the following performance requirements.
		1. Live updates via wired interface with the LA-24/PEQ in accordance with the Interface Control Document (ICD) for Weapon Mounted Ballistic Calculators and Micro-Displays Revision D
		2. Shall run on one AA or CR123 battery
		3. Shall have a battery life of greater than 24 hours on brightest setting
		4. Weight with mount is no greater than 7 oz.
		5. Screen size is no smaller than 2.5 inches
		6. Adjustable font size
		7. MIL-STD-1913 mountable without causing interference to the day optic
		8. Mountable for both Left and Right hand shooter
		9. Survive shock impulse of the MK22 in .338NM, .300NM, and .300PRC
		10. Live Target Screen
		11. Custom Target Card Screen - View up to 10 Targets with split screen capability with Live Target Screen
		12. Range Card Capability
		13. Wired remote (either in series or in parallel) from LA-24/PEQ to HUD to remote.
		14. Adjustable Back light feature
		15. Water proof to at least 1m depth for 2 hours.
		16. Survive all Special Operations Command (SOCOM) SOF environments and be tested per MIL-STD-810H
		17. Maximum TRL 7 (System prototype demonstration in an operational environment: Prototype near, or at, planned operational system. Represents a major step up from TRL 6, requiring the demonstration of an actual system prototype in an operational environment such as an aircraft, vehicle, or space.)
	2. **Component Requirements:** N/A
	3. **Unique Item Identification:** The contractor shall include the DoD unique item identifications or a DoD recognized unique identification equivalent for the prototypes delivered. This includes a description and cost breakout as applicable. Information on unique item identifier types is at <http://www.acq.osd.mil/dpap/UID/uid_types.html>. The guide is at <http://www.acq.osd.mil/dpap/UID/guides.htm>. This is in accordance with DFARS 252.211-7003.
	4. **Ship to Address:** The Contractor shall deliver all prototypes systems delivered under this contract to the following address:

Naval Surface Warfare Center Crane Division (DoDAAC: N00164)

Audrey Robinson/Brandon Clarke

Bldg 3291, Code JXQR

300 HWY 361

CRANE, IN 47522-5001

(812) 854-4399/(812) 854-1731

* 1. **Shipping Costs:** The Contractor shall pay all the costs to ship all product deliverables to and from the validation testing/demonstration sites and to the final delivery location.
1. **Document Deliverables:** The Contractor shall provide the following documents to the respective specified addresses during the Phase II Period of Performance:
2. Kick-Off/System Requirements Review: See CDRL A001.
3. Monthly Progress Reports: See CDRL A002.
4. Developmental Test Plan for Performance Validation: See CDRL A003.
5. Developmental Test Report for Performance Validation: See CDRL A004.
6. Business Plans: See CDRL A005.
7. Final Technical Report: See CDRL A006.
8. Preliminary Design Review – Design Review Information Package: See CDRL A007.
9. Critical Design Review - Design Review Information Package: See CDRL A008.

**V. TESTS AND DEMONSTRATIONS:** The Contractor shall conduct tests and demonstrations to validate that the Remote Sniper Heads Up Display meets or exceeds all the requirements specified in this Statement of Objectives. (See CDRL A003 and CDRL A004).

1. The Contractor shall demonstrate that the Remote Sniper Heads Up Display meets or exceeds the performance of the detailed requirements above. (See CDRL A003 and CDRL A004).

VI. **ENVIRONMENTAL AND SAFETY:**

 <http://everyspec.com/MIL-STD/MIL-STD-1800-1999/MIL-STD-1913_17705/>

 <http://everyspec.com/MIL-STD/MIL-STD-0800-0899/MIL-STD-810H_55998/>

VII. **GOVERNMENT FURNISHED PROPERTY (GFP)/GOVERNMENT FURNISHED PROPERTY (GFE)/GOVERNMENT FURNISHED INFORMATION (GFI):** The Government does not intend to provide the Contractor any GFP, GFE or GFI. However, the Contractor shall specify by stock number and nomenclature any GFP/GFE/GFI the Contractor believes is needed to successfully complete the requirements specified in this Statement of Objectives.

VIII. **Period of Performance:** The maximum Period of Performance for this Phase II effort is twelve (12) months. The Contractor can propose a lessor Period of Performance if a lessor Period of Performance does not jeopardize the Contractor’s successful completion of the requirements specified in this Statement of Objectives.

**IX. MEETINGS AND REVIEWS**: The Contractor shall attend the following meetings and reviews.

A. Phase II Kick-Off meeting shall be conducted at the contractor facility not later than thirty (30) calendar days after contract award. The Contractor shall provide the Government:

1. A Phase II Kick-Off Meeting Read-Ahead no less than seven (7) calendar days prior to the Phase II Kick-Off Meeting / System Requirements Review Meeting (See CDRL A001).

2. An initial Program Management Plan for accomplishing all objectives specified in this Statement of Objectives. (See CDRL A002).

3. Conceptual Design Drawings no less than ten (10) calendar days prior to the Phase II Kick-Off/System Requirements Review Meeting (See CDRL A001).

B. Preliminary Design Review (PDR) - This meeting shall be conducted by teleconference no more than ninety (90) calendar days after Phase II contract award. The Contractor shall provide teleconference capability for those participants. The Contractor shall provide the Government:

1. A Preliminary Design Review and Materials Read-Ahead Briefing no less than ten (10) calendar days prior to the PDR (See CDRL A007).

2. A Detailed Design Report (See CDRL A007).

3. Trade off considerations for the design. (See CDRL A007).

4. Results of any testing to date. (See CDRL A004).

5. Resolution to any Contractor/Government issues or concerns.

6. An assessment of other potential benefits/impacts of the prototypes, including weight savings, cost reduction, prolonged system life, and a recommendation of any changes for consideration/incorporation into the subsequent design that will be provided to the Government at the follow-on Critical Design Review. (See CDRL A008).

C. Critical Design Review (CDR): This teleconference meeting shall be arranged by the Contractor two (2) weeks prior to the end of the contract completion date. The Contractor shall provide the Government:

1. A Critical Design Review and Materials Read-Ahead Briefing no less than ten (10) calendar days prior to the CDR (See CDRL A008).

2. A Detailed Design Report (See CDRL A008).

3. Trade off considerations for the design. (See CDRL A008).

4. Results of any testing to date. (See CDRL A004).

5. Resolution to any Contractor/Government issues or concerns.

D. Phase II Close-Out Meeting: The Phase II Close-Out Meeting shall be conducted in Tampa, FL, no earlier than seven (7) calendar days prior to the conclusion of the Phase II Period of Performance. The Contractor shall provide the Government:

1. A briefing on the test verification (See CDRL A004).

2. An update of the progress to date. (See CDRL A002)

3. Resolution to any Contractor/Government issues or concerns.

**X. NOTIFICATION:** The Contractor shall notify USSOCOM no less than thirty (30) calendar days prior to tests, demonstrations and reviews at the Contractor’s facilities to ensure USSOCOM representatives can attend should they desire to do so.

**XI. TRAVEL REQUIREMENTS:** If the PDR and CDR are not conducted virtually and travel is required, the Contractor shall comply with the Federal Acquisition Regulation 31.205-46 (<http://www.gsa.gov/perdiem>) on proposing all travel related costs. If required, the Contractor shall include the costs associated with the following travel requirements in the proposal:

1. Phase II System Testing: Crane, IN; up to (2) three day overnight trips, no more than three (3) Contractor representatives.
2. Phase II Close-Out Meeting: Tampa, Florida; one (1) overnight, no more than three (3) Contractor representatives.

**XII. DISCLOSURE OF UNCLASSIFIED INFORMATION:**

A. On September 21, 2001, the Department of Defense designated Headquarters US Special Operations Command (USSOCOM) a sensitive unit, as defined by Title 10 United States Code (USC) Section 552 (10 USC 552). In keeping with this designation, unclassified information related to USSOCOM military technology acquisitions managed by USSOCOM or any of its component commands, will be designated Controlled Unclassified Information (CUI). As such, the contractor hereby unequivocally agrees that it shall not release to anyone outside the Contractor’s organization any unclassified information, regardless of medium (e.g., film, tape, document, Contractor’s external website, newspaper, magazine, journal, corporate annual report, etc.), pertaining to any part of this contract or any program related to this contract, unless the Contracting Officer has given prior written approval. Furthermore, any release of information which associates USSOCOM, Special Operation Forces (SOF), or any component command with an acquisition program, contractor, or this contract is prohibited unless specifically authorized by USSOCOM.

B. Requests for approval shall identify the specific information to be released, the medium to be used, and the purpose for the release. The Contractor shall submit its request to the Contracting Officer at least 45 days before the proposed date for release for approval. No release of any restricted information shall be made without specific written authorization by the Contracting Officer.

C. The Contractor shall include a similar requirement in each subcontract under this contract. Subcontractors shall submit requests for authorization to release through the prime contractor to the Contracting Officer.

D. The Contractor further understands that Title 18 USC Section 701 specifically prohibits the use of the USSOCOM emblem or logo in any medium (e.g., corporate website, marketing brochure, newspaper, magazine, etc.) unless authorized in writing by USSOCOM. Forward any requests to use the USSOCOM emblem or logo through the Contracting Officer.