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Name of Offeror or Contractor: PEI ELECTRONICS INC		

SECTION A - SUPPLEMENTAL INFORMATION

ITEM 1. This modification revises the TASK ORDER STATEMENT OF WORK FOR THE BRADS INTERFACE DEVICE which originally defined performance under CLINs 0006AB & 0006AM. Furthermore, the scope of performance for CLINs 0006AB & 000AM is expanded to also include the revised CM/ED SCOPE OF WORK is provided in ITEM 2 of this modification. The revised SOW that covers the originally defined scope of performance under CLINs 0006AB & 0006AM is defined as follows:

PEI TASK ORDER STATEMENT OF WORK
FOR
BRADS INTREFACE DEVICE (BID)

- 1.0 Scope
The scope of this task order is to design and develop a replacement unit for the Test Adapter Vehicle (TAV). The replacement unit shall be a functional replacement for the existing TAV.
- 2.0 Background
The TAV is used to support on vehicle diagnostics for the Bradley fleet of vehicles. It augments the Soldier's Portable On-system Repair Tool (SPORT) by providing test instrumentation and communications interfaces required to fault diagnose to a single line replaceable unit (LRU). It also provides the capability to perform the Internal Combustion Engine (ICE) tests. The reliability of the TAV in support of the Bradley A3 BRADS development has proven to be unacceptable.
- 3.0 General
This task order covers the design and development of the BRADS Interface Device (BID). The BID in conjunction with the SPORT shall be capable of performing all BRADS A3, and BRADS Legacy tests. The technical specification for the BID will be reviewed at the Systems Requirement Review (SRR) per the master schedule.
 - 3.1 DELETED
 - 3.2 DELETED
 - 3.3 DELETED
 - 3.4 DELETED
- 4.0 Program Milestones
 - 4.1 Start of Work Meeting.
The Start of Work Meeting shall be hosted by PEI after contract award. The Master Program Schedule and approach shall be presented at the Start of Work Meeting.
 - 4.2 System Requirement Review
System Requirement Review (SRR) shall be convened in accordance with the Master Program Schedule. The SRR shall cover hardware and software system requirements.
 - 4.3 Preliminary Design Review.
The Preliminary Design Review (PDR) shall be convened in accordance with the Master Program Schedule. The PDR shall cover hardware and software preliminary design. If required these reviews may be independent.
 - 4.4 DELETED
 - 4.5 DELETED
 - 4.6 DELETED
- 5.0 Logistics
Technical manuals as required for BID maintenance shall be developed. Provisioning data shall also be provided.
 - 5.1 DELETED
 - 5.2 DELETED
 - 5.3 DELETED
- 6.0 Deliverables
 - 6.1 Master Program Schedule.
The Master Program Schedule shall be prepared and presented at the Start of Work Meeting. The schedule shall have as a

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minimum the milestones identified in this task order. It is preferred that the schedule shall also include top level detail of the development tasks.

6.2 BID Hardware

There shall be TWO (2) sets of BID hardware developed under this task order. Deliveries shall be in accordance with the Master Program Schedule.

6.3 DELETED

6.4 DELETED

6.5 DELETED

6.6 DELETED

ITEM 2. IAW PM BRADLEY direction this modification revises the terms and conditions governing performance under CLINS 0017AA, 0017AB, 0017AC, 0017AD & 0017AE as defined in the following SCOPE OF WORK. Furthermore the following SOW is included as an adjunct to the previously SOW defined in ITEM 1 of this modification governing performance on CLINs 0006AB & 0006AM. Also the following SOW will govern performance under CLIN 0017AF established in ITEM 3 of this modification. The SOW defining performance is as follows:

The following Terms and Conditions apply to the proposed contract line item under the Systems Technical Support contract for the development of a Digital Vehicle Distribution Box and its Test Program for the Bradley A3. These Terms and Conditions also apply to the Drivers Display Panel and Drivers Tactical Display.

1. Detailed deliverable documentation will be limited to performance specifications; however, detailed manufacturing information can be made available to all IPT members, subject to reciprocal agreements. The guidelines to be used are as follows:

By direction from the PM, this program seeks to minimize the cost overhead associated with traditional documentation methods. PEI will prepare its normal documentation products, however, certain exceptions to our standard STS practices will be applied to this contract. PEI will utilize DOD-STD00100D (AR) as a guide for the documentation products, with the following exceptions:

A. Performance specifications, ICDs, Software Source Code, and selected other products, as identified on the accompanying drawing tree, will be the only items that are deliverables for the contract.

B. Other documentation to support the manufacture and assembly of items covered by a performance specification may be prepared in the TACOM drawing format using numbers assigned through UDLP. However, such documentation will not be deliverable and will utilize the most expedient part number without seeking to generate SoCDs not SCDs for the parts listing. Military numbers will be used if appropriate and available but the commercial/industrial part number will be adequate for this contract. This documentation will be suitable and available for use in a limited competitive procurement.

C. In general, drawings will be prepared using TACOMs cage code, with the understanding that PEI will not ERR these drawings nor will non-deliverable drawings be finished and ready for submission. Deliverable documentation will be provided to the Government.

D. PEI shall make available documentation necessary for provisioning of spares.

E. PEI will not modify nor re-document Non-Development Items (NDI) that are utilized and /or directed to be used on this program, regardless of who the actual manufacturer may be. The only documentation supplied will be the manufacturers standard documentation.

2. The DVDB design target environmental operating range will be -46 degrees centigrade to +71 degrees centigrade; however, the high temperature operation at +71 degrees centigrade will not be continuous and will have a time/temperature profile. PM Bradley and PEI are working to find a profile satisfactory to the customer. The DVDB design target Storage Temperature will be -51 degrees C to +71 degrees C. In all cases, the Non-Development Items that have been directed to be used for this program will only be required to meet their own design specifications. The Government PMs are responsible for resolving any requirement differences for common use between vehicles and programs.

3. The prototype hardware to be developed is 7 DVDBs and 2 complete card sets for spares, 7 each DDPs and 7 complete sets of harnesses and mounting hardware needed for vehicle integration.

4. DELETED

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5. CM/ED Program will provide support for Road Testing of 1 modified BFVS A3.
6. The estimate includes Purchased Services from proposed team members.
7. The CM/ED system shall provide Embedded DIagnostics to preclude the use of DSESTS for the DVDB at the Direct Support (DS) level.
8. The System Segment Specifications (SSS) will reflect all design requirements. It shall be approved and accepted as the formal requirements document.
9. PEI will support the vehicle prime contractor by supply inputs and LSA/TM source material in accordance with the programs schedule.
10. The contractor shall conduct a feasibility study for converting the DVDB design to a System on a Chip (SOC) Technology to include the costs (recurring and non-recurring) and schedule estimates. An implementation plan shall be submitted to the Government for approval.
11. The contractor shall conduct a study of the video re-architecture that will provide CIV, IBAS, TPUII and DVE videos to the DTD and the Squad Leaders Display (SLD). Concept with cost (recurring and non-recurring) and schedule shall be provided for approval.
12. Current Hull Processing Unit (HPU) functionality (hardware and software) as it exists in the A3 Bradley and A3 BFIST shall be incorporated into the DVDB.
13. The Environmental Qualification Testing of the DVDB shall be deferred until further notice.
14. The CEDB design shall be deferred until further notice.
15. DELETED
16. DELETED
17. DELETED
18. Perform a feasibility study for the implementation of the DVDB into A2 ODS vehicle. The study should include options, schedule, costs (recurring and non-recurring_ and achievable commonality.
19. Based on program redirection, PEI is authorized to transfer excess material out of the CM/ED project and recover that cost for the project.
20. IEDB Scope: Improved Electrical Distribution Box (IEDB) effort: Provide engineering assistance, not to exceed 100 hours, to review UDLP's solutions and provide comments or additional recommendations to resolve two technical problems. One problem is the generator light blinking intermittently. The other problem is the DCCA Electronic Circuit Breaker tripping during start of vehicle.
21. PEI will be responsible for the A3 BFVS chassis modifications and integrations under the CM/ED program. This will include the following responsibilities:
 - A. Selcting, purchasing, installing and integrating the power train sensors.
 - B. Design, development and integration of all CM/ED components and modifications into the chassis of the A3 BFVS.
 - C. Development of ModificationWork Order (MWO) input data for chassis modifications, under the CM/ED program, applied to the A3 Retrofit vehicles.
 - D. Modifications to the connections for the Squad Leader's Display (SLD).
22. PEI will be responsible for chassis modifications and vehicle integration of the CM/ED system for other BFVS chassis as directed and funded by the PMO. Additional hardware and software changes may be required to support other chassis variants.
23. As funding is made available, the CM/ED program will develop the Software Loader/Verifier (SL/V) software for updating the DVDB, DTD and SLD software.
24. PEI will interface with TARDEC to incorporate IDVS elements into the chassis modifications, integration and MWO.
25. PMO will provide a DVE and VVS2 for fit check with the CM/ED system.

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ITEM 3. This modification establishes additional funding for the SOW identified in ITEM 2 of this modification under CLIN 00017AF as directed by PM Bradley. The CLIN funding is reflected as follows:

CLIN	NOMENCLATURE	COST	COM	FEE	CLIN TOTAL
0017AF	CMED	\$2,884,140	\$9,135	\$256,725	\$3,150,000

ITEM 4. This modification, at the direction of PM Bradley, extends the period of performance for CLINs 0006AB, 0006AM, 0017AA, 0017AB, 0017AC, 0017AD & 0017AE to 31 Dec 2003.

As a result of this modification, the value of this Delivery Order is increased by \$3,150,000 from \$44,791,606.37 to \$47,941,606.37

All other terms and conditions remain unchanged.

*** END OF NARRATIVE A 036 ***

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Name of Offeror or Contractor: PEI ELECTRONICS INC

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0006AB	SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS <u>SERVICES LINE ITEM</u> NOUN: BRADS INTERFACE DEVICE (BID) PRON: B013AD08D2 PRON AMD: 01 ACRN: AK AMS CD: 538006 <u>Inspection and Acceptance</u> INSPECTION: Origin ACCEPTANCE: Origin <u>Deliveries or Performance</u> DLVR SCH PERF COMPL <u>REL CD QUANTITY DATE</u> 001 0 31-DEC-2003 \$ 2,269,168.00				\$ 2,269,168.00
0006AM	<u>SERVICES LINE ITEM</u> NOUN: BRADS LEGACY/BID PRON: W126F93872 PRON AMD: 01 ACRN: BA AMS CD: 538006000000 CUSTOMER ORDER NO: B023AD05D2D2 <u>Inspection and Acceptance</u> INSPECTION: Origin ACCEPTANCE: Origin <u>Deliveries or Performance</u> DLVR SCH PERF COMPL <u>REL CD QUANTITY DATE</u> 001 0 31-DEC-2003 \$ 1,560,453.00				\$ 1,560,453.00
0017AA	<u>SERVICES LINE ITEM</u> NOUN: EMBEDDED DIAGNOSTICS PRON: B003AD05D2 PRON AMD: 01 ACRN: AF AMS CD: 538006 <u>Inspection and Acceptance</u> INSPECTION: Origin ACCEPTANCE: Origin <u>Deliveries or Performance</u> DLVR SCH PERF COMPL <u>REL CD QUANTITY DATE</u> 001 0 31-DEC-2003 \$ 2,531,000.00				\$ 2,531,000.00
0017AB	<u>SERVICES LINE ITEM</u> NOUN: EMBEDDED DIAGNOSTICS PRON: B013AD06D2 PRON AMD: 01 ACRN: AG AMS CD: 538006 <u>Inspection and Acceptance</u> INSPECTION: Origin ACCEPTANCE: Origin <u>Deliveries or Performance</u> DLVR SCH PERF COMPL <u>REL CD QUANTITY DATE</u> 001 0 31-DEC-2003				\$ 2,237,491.00

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Name of Offeror or Contractor: PEI ELECTRONICS INC

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	\$ 2,237,491.00				
0017AC	<p><u>SERVICES LINE ITEM</u></p> <p>NOUN: EMBEDDED DIAG - PLUG AND PLAY PRON: B013AD07D2 PRON AMD: 01 ACRN: AH AMS CD: 538006 <u>Inspection and Acceptance</u> INSPECTION: Origin ACCEPTANCE: Origin <u>Deliveries or Performance</u> DLVR SCH PERF COMPL <u>REL CD QUANTITY DATE</u> 001 0 31-DEC-2003</p> <p style="text-align: right;">\$ 96,505.00</p>				\$ 96,505.00
0017AD	<p><u>SERVICES LINE ITEM</u></p> <p>NOUN: PEI CM/ED PRON: W126F93972 PRON AMD: 01 ACRN: BA AMS CD: 538006000000 CUSTOMER ORDER NO: B023AD05D2D2 <u>Inspection and Acceptance</u> INSPECTION: Origin ACCEPTANCE: Origin <u>Deliveries or Performance</u> DLVR SCH PERF COMPL <u>REL CD QUANTITY DATE</u> 001 0 31-DEC-2003</p> <p style="text-align: right;">\$ 2,251,075.00</p>				\$ 2,251,075.00
0017AE	<p><u>SERVICES LINE ITEM</u></p> <p>NOUN: PEI CM/ED BRIDGE FUNDING PRON: W126F93972 PRON AMD: 01 ACRN: BA AMS CD: 538006000000 CUSTOMER ORDER NO: B023AD05D2D2 <u>Inspection and Acceptance</u> INSPECTION: Origin ACCEPTANCE: Origin <u>Deliveries or Performance</u> DLVR SCH PERF COMPL <u>REL CD QUANTITY DATE</u> 001 0 31-DEC-2003</p> <p style="text-align: right;">\$ 276,025.00</p>				\$ 276,025.00
0017AF	<p><u>SERVICES LINE ITEM</u></p> <p>NOUN: CMED PRON: 723039DS72 PRON AMD: 01 ACRN: BJ AMS CD: 31102897002 <u>Inspection and Acceptance</u> INSPECTION: Origin ACCEPTANCE: Origin <u>Deliveries or Performance</u></p>				\$ 3,150,000.00

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ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT																		
DLVR SCH <u>REL CD</u> 001	<table border="0"> <tr> <td></td> <td style="text-align: center;"><u>QUANTITY</u></td> <td style="text-align: center;"><u>PERF COMPL</u></td> <td style="text-align: center;"><u>DATE</u></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">0</td> <td style="text-align: center;">31-DEC-2003</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: right;">\$ 3,150,000.00</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		<u>QUANTITY</u>	<u>PERF COMPL</u>	<u>DATE</u>				0	31-DEC-2003					\$ 3,150,000.00								
	<u>QUANTITY</u>	<u>PERF COMPL</u>	<u>DATE</u>																				
	0	31-DEC-2003																					
	\$ 3,150,000.00																						

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SECTION G - CONTRACT ADMINISTRATION DATA

LINE ITEM	PRON/ AMS CD	OBLG STAT/ ACRN	JOB ORD NO	PRIOR AMOUNT	INCREASE/DECREASE AMOUNT	CUMULATIVE AMOUNT
0017AF	723039DS72 31102897002	BJ	1 3ZGBA3	0.00 \$	3,150,000.00 \$	3,150,000.00
				NET CHANGE \$	3,150,000.00	

SERVICE NAME	NET CHANGE BY ACRN	ACCOUNTING CLASSIFICATION	ACCOUNTING STATION	INCREASE/DECREASE AMOUNT
Army	BJ	21 32033000035R5R03P31102831E9 S20113	W56HZV	\$ 3,150,000.00
			NET CHANGE \$	3,150,000.00

	PRIOR AMOUNT OF AWARD	INCREASE/DECREASE AMOUNT	CUMULATIVE OBLIG AMT
NET CHANGE FOR AWARD:	\$ 44,791,606.37	\$ 3,150,000.00	\$ 47,941,606.37