

AWARD/CONTRACT		1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700)			RATING DO-C9	PAGE OF PAGES 1 58		
2. CONTRACT (Proc. Inst. Ident.) NO. W911SR-10-D-0001		3. EFFECTIVE DATE 29 Jan 2010		4. REQUISITION/PURCHASE REQUEST/PROJECT NO. W91B940027C030				
5. ISSUED BY US ARMY RDECOM CONTRACTING CTR. - W911SR EDGEWOOD CONTRACTING DIVISION E-4455 LEITZAN ROAD ABERDEEN PROVING GROUND MD 21010-5401		CODE W911SR	6. ADMINISTERED BY (If other than Item 5) DCMA HUNTSVILLE - S0107A BLDG 4505, SUITE 301 MARTIN ROAD REDSTONE ARSENAL AL 35898-0001			CODE S0107A		
7. NAME AND ADDRESS OF CONTRACTOR (No., street, city, county, state and zip code) CAMBER CORPORATION 635 DISCOVERY DR HUNTSVILLE AL 35896-2801				8. DELIVERY [] FOB ORIGIN [X] OTHER (See below)				
				9. DISCOUNT FOR PROMPT PAYMENT Net 30 Days				
				10. SUBMIT INVOICES 1 (4 copies unless otherwise specified) TO THE ADDRESS SHOWN IN:		ITEM Section G		
CODE OMMWV4		FACILITY CODE						
11. SHIP TO/MARK FOR US ARMY ECBC CHRISTINA L. PETERSON ATTN: AMSRD-ECB-PI-OP-PM, E3947 BEACH PO ABERDEEN PROVING GROUND MD 21010		CODE W91B94	12. PAYMENT WILL BE MADE BY DFAS-COLUMBUS CENTER DFAS-CO/SOUTH ENTITLEMENT OPERATIONS P.O. BOX 182264 COLUMBUS OH 43218-2264			CODE HQ0338		
13. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION: [] 10 U.S.C. 2304(c)() [] 41 U.S.C. 253(c)()			14. ACCOUNTING AND APPROPRIATION DATA See Schedule					
15A. ITEM NO.	15B. SUPPLIES/ SERVICES		15C. QUANTITY	15D. UNIT	15E. UNIT PRICE	15F. AMOUNT		
SEE SCHEDULE								
15G. TOTAL AMOUNT OF CONTRACT						\$25,000.00		
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CONTRACTING OFFICER WILL COMPLETE ITEM 17 OR 18 AS APPLICABLE								
17. [X] CONTRACTOR'S NEGOTIATED AGREEMENT (Contractor is required to sign this document and return _____ copies to issuing office.) Contractor agrees to furnish and deliver all items or perform all the services set forth or otherwise identified above and on any continuation sheets for the consideration stated herein. The rights and obligations of the parties to this contract shall be subject to and governed by the following documents: (a) this award/contract, (b) the solicitation, if any, and (c) such provisions, representations, certifications, and specifications, as are attached or incorporated by reference herein. (Attachments are listed herein.)				18. [] AWARD (Contractor is not required to sign this document.) Your offer on Solicitation Number W911SR-09-R-0023-0005 including the additions or changes made by you which additions or changes are set forth in full above, is hereby accepted as to the items listed above and on any continuation sheets. This award consummates the contract which consists of the following documents: (a) the Government's solicitation and your offer, and (b) this award/contract. No further contractual document is necessary.				
19A. NAME AND TITLE OF SIGNER (Type or print)				20A. NAME OF CONTRACTING OFFICER TEELY SHAFFER / CONTRACTING OFFICER TEL: 410-436-2227 EMAIL: teely.shaffer@us.army.mil				
19B. NAME OF CONTRACTOR		19C. DATE SIGNED		20B. UNITED STATES OF AMERICA 		20C. DATE SIGNED 01-Feb-2010		
BY _____ (Signature of person authorized to sign)				BY _____ (Signature of Contracting Officer)				

Section B - Supplies or Services and Prices

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0001	CBRNE Mission Support CPFF	UNDEFINED	Lot	UNDEFINED	\$0.00
	Engineering Support, Research & Technology (R&T) Support, and Program and Integration Support to the Edgewood Chemical Biological Center (ECBC) and other customers. Task Orders awarded under this CLIN will be on a Cost-Plus-Fixed-Fee basis.				
	FOB: Destination				
				MAX COST	UNDEFINED
				FIXED FEE	UNDEFINED
				TOTAL MAX COST + FEE	<u>\$0.00</u>

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0002	CBRNE Mission Support CPIF	UNDEFINED	Lot	UNDEFINED	\$0.00
	Engineering Support, Research & Technology (R&T) Support, and Program and Integration Support to the Edgewood Chemical Biological Center (ECBC) and other customers. Task Orders awarded under this CLIN will be on a Cost-Plus-Incentive-Fee basis.				
	FOB: Destination				
				TARGET COST	UNDEFINED
				TARGET FEE	UNDEFINED
				TOTAL TGT COST + FEE	<u>\$0.00</u>
				MINIMUM FEE	\$0.00
				MAXIMUM FEE	\$0.00
				SHARE RATIO ABOVE TARGET	
				SHARE RATIO BELOW TARGET	

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0003	CBRNE Mission Support FFP Engineering Support, Research & Technology (R&T) Support, and Program and Integration Support to the Edgewood Chemical Biological Center (ECBC) and other customers. Task Orders awarded under this CLIN will be on a Firm-Fixed-Price basis. FOB: Destination	UNDEFINED	Lot	UNDEFINED	\$0.00
				MAX NET AMT	\$0.00

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT NSP
0004	Technical Data In accordance with contract CDRLS included in Section J and as specified in individual task orders FOB: Destination	UNDEFINED	Lot		
				NET AMT	

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT NSP
0005	Contractor Manpower Reporting Req The contractor shall report all contractor manpower (including subcontractor manpower) required for performance of this contract in accordance with Section C paragraph C.6 FOB: Destination	UNDEFINED	Lot		
				NET AMT	

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0006	Minimum Guarantee FFP Funds are provided to support the contract guaranteed minimum. Contractor is not authorized to invoice against this CLIN. Upon award of the first task order under this contract, funding under this CLIN will be deobligated and the funding obligated on the task order as appropriate. FOB: Destination PURCHASE REQUEST NUMBER: W91B940027C030	1	Lot	\$25,000.00	\$25,000.00
				MAX NET AMT	\$25,000.00
	ACRN AA CIN: W91B940027C0300006				\$25,000.00

B.1

B.1. TYPE OF CONTRACT

This is an Indefinite Quantity Contract pursuant to FAR 16.504. Individual Task Orders will be negotiated on a Cost-Plus-Fixed-Fee, Completion Form (FAR 16.306(d)(1)); Cost-Plus-Incentive-Fee (FAR 16.304); or Firm-Fixed Price (FAR 16.202) basis.

B.2 CONTRACT MINIMUM AND MAXIMUM QUANTITIES (EFFORT)

Pursuant to FAR Clause 52.216-22, entitled: Indefinite Quantity," the contract Minimum and Maximum Quantities (effort) shall be task orders with dollar values as follows:

Minimum quantity/value: \$25,000.00 for each contract award.

Maximum quantity/value: \$485,000,000.00 total for all contracts awarded under this solicitation and solicitation W911SR-09-R-0031.

Section C - Descriptions and Specifications

PERFORMANCE WORK STATEMENT

C.1 **SCOPE.** This is an Indefinite Delivery/Indefinite Quantity (ID/IQ) contract with, when applicable, performance based task and delivery orders for the Edgewood Chemical Biological Center (ECBC) and other customers. The contract provides project management as well as research, development, acquisition, and sustainment support services.

C.1.1 **Administration.**

C.1.1.1. This contract will be administered through performance based practices, when applicable and practical, and establish a Quality Assurance Surveillance Plan (QASP) as the overarching management tool IAW Federal Acquisition Regulation (FAR) Subpart 37.6, Performance Based Contracting. Individual task orders may contain QASPs which may include specific performance standards and inspection methods for those task orders.

C.1.1.2. Depending upon the nature of the task, the Government reserves the right to award individual task orders as fixed price or cost reimbursable delivery orders and may require the use of earned value management (EVM) IAW the FAR and the Defense Federal Acquisition Regulation Supplement (DFARS).

C.1.2 **Background.** The US Army Research, Development and Engineering Command (RDECOM), headquartered at the Edgewood Area of Aberdeen Proving Ground (APG), Maryland, provides integrated science, technology, and engineering solutions to address the defense needs of the warfighter. Two (2) major subordinate activities located at the Edgewood Area are the RDECOM Contracting Center and the ECBC.

C.1.2.1 The RDECOM Contracting Center's mission is to serve the contracting needs of the Edgewood community. The Center's contracts are typically fixed price or cost reimbursable and cover the full spectrum of materiel research, development, test, production, sustainment and disposal.

C.1.2.2 The ECBC mission is to develop, integrate, and sustain decisive technology-enabled capabilities to ensure the dominance of our warfighters. The ECBC will be serviced by this contract and has lead responsibility for monitoring work performed under this contract. Mission focused requirements include:

C.1.2.2.1. Transitioning technology out of the laboratories and into the hands of the warfighter in the shortest time

C.1.2.2.2. Developing materials and technologies for the future

C.1.2.2.3. Completing systems engineering, assessment and analysis; and

C.1.2.2.4. Providing engineering support to development and sustainment efforts

C.1.2.3 The Edgewood Area of APG, Maryland, is home to many other organizations that together form a consolidated chemical biological defense community. Each of these organizations, and their subordinate offices, will be serviced by this contract. Organizations that are co-located with ECBC, or have major offices on the Edgewood Area of APG include, but not limited to:

C.1.2.3.1. US Army Medical Research Institute for Chemical Defense

C.1.2.3.2. Joint Program Executive Office for Chemical and Biological Defense

C.1.2.3.3. Center for Health Promotion and Preventive Medicine

C.1.2.3.4. Chemical Materials Agency

C.1.2.3.5. Assembled Chemical Weapons Activity

C.1.2.3.6. 20th Support Command

C.1.2.3.7. Department of Homeland Security

C.1.3 **Objectives.**

C.1.3.1. The purpose of this contract is to service the non-medical needs of the Chemical, Biological, Radiological, Nuclear, and Explosives (CBRNE) defense agencies. The contractor will meet the government's objectives based upon the stated performance standards identified in individual tasks and delivery orders. This includes all aspects of performance under cost, schedule, safety, training, security, surety, environmental, health standards.

C.1.3.2. Task orders may be classified up to the SECRET level.

C.2 **APPLICABLE DOCUMENTS.** Documents listed below form a part of this contract to the extent invoked by specific reference in other paragraphs of this contract. If a document is referenced without indicating the specific paragraph as being applicable, then the document is applicable in its entirety, or as specified in the individual task or delivery order. (Documents pertaining to safety, security and capability requirements are included in Section H. Additional documents will be included in individual task orders as applicable.)

C.2.1 **Industry Documents.** ANSI Z136.1-20070, American National Standard for Safe Use of Lasers. (ANSI documents are available at: <http://webstore.ansi.org/ansidocstore/find.asp?>)

C.2.2 **Department of Defense Standards**

C.2.2.1 MIL-STD-882D, System Safety, 10 February 2000.

C.2.2.2 MIL-STD-810, Test Method Standard for Environmental Engineering Considerations and Laboratory Tests, 1 January 2000.

C.2.2.3 MIL-STD-2073-1E, Standard Practice for Military Packaging, 23 May 2008. (DOD standards are available at: <http://astimage.daps.dla.mil/quicksearch/>)

C.2.3 **Other Government Documents**

C.2.3.1 Title 10 Code of Federal Regulations (CFR), Energy; Part 19: Notices, Instructions and Reports to Workers: Inspection and Investigations; and Part 20: Standards for Protection Against Radiation; 1 January 2002.

C.2.3.2 Title 29 CFR, Labor; Part 1910.97, Occupational Safety and Health Standards, Nonionizing Radiation, 1 July 2001.

C.2.3.3 Title 32 CFR, National Defense; Part 626: Biological Defense Safety Program and Part 627, Biological Defense Technical Safety Requirements (DA PAM 385-69), 1 July 2001. (CFRs are available at: <http://www.access.gpo.gov/nara/cfr/cfr-table-search.html#page1>)

C.2.3.4 DoDI 6055.11, Protection of DoD Personnel from Exposure to Radiofrequency Radiation And Military Exempt Lasers, 21 February 1995 (Chapter 1, 6 May 1996).

C.2.3.5 DoDi 5000.02, Operation of the Defense Acquisition System, 8 December 2008. (DOD Instructions are available at: <http://www.dtic.mil/whs/directives/corres/ins1.html>.)

C.2.3.6 DA Pamphlet (DAP) 385-61, Toxic Chemical Agent Safety Standards, 17 December 2008.

C.2.3.7 DA Pamphlet 385-69, Safety Standards for Microbiological and Biomedical Laboratories, 6 May 2009.

C. 2.3.8 DA Pamphlet 385-24, The Army Radiation Safety Program, 24 August 2007.

C.2.3.9 AR 11-9, The Army Radiation Safety Program, 28 May 1999.

C.2.3.10 AR 50-6, Chemical Surety, 28 July 2008.

C.2.3.11 AR 190-59, Chemical Agent Surety Program, 11 September 2006.

C.2.3.12 AR 385-61, Toxic Chemical Agent Safety Standards, 17 December 2008.

C.2.3.13 AR 385-10, The Army Safety Program, 7 November 2008.

C.3.2.14 AR 50-1, Biological Surety, Biological Surety, 28 July 2008.

C.3.2.15 AR 190-17, Biological Select Agents and Toxins Surety Program, 6 September 2006.

C.2.3.16 AR 700-127, Integrated Logistics Support, 29 April 2009.

C.3.2.17 AR 70-25, Use of Volunteers as Subjects of Research, 25 January 1990.
(Army Publications are available at: <http://www.usapa.army.mil/gils/epubs10.html>)

C.2.3.18 AMC Regulation 385-100, Safety Manual, 26 September 1995.
(AMC Regulations are available at http://www.amc.army.mil/amc/ci/pub_index.html)

C.2.3.19 ECBC Publication, Preparation of Safety Standing Operating Procedure (SOP), Version 2.0, December 2008.

C.3 **Requirements.** The contractor, as an independent contractor and not as an agent of the government, shall provide the necessary resources (except those specifically designated as government-furnished) to perform the work as outlined below.

C.3.1 **General.** Contractor personnel may be required to work on-site at the ECBC, APG, or other locations for extended periods of time. Contractor personnel may be required to travel within and outside the continental United States (CONUS and OCONUS).

C.3.1.1 As specified in an individual task order, the contractor shall appoint a Program Manager (PM) who shall supervise contractor personnel. In the absence of the PM, an alternate shall be designated.

C.3.1.2 As specified in individual task orders, the contractor shall acquire all supplies and equipment required for contract performance. The Government will provide equipment and facilities when and only as appropriate.

C.3.1.3 The contractor shall comply with the safety requirements included in Section H and as specified in individual task and delivery orders.

C.3.2 **Acquisition Program and Engineering Support**

C.3.2.1 **Materiel Solution Analysis.** The contractor shall:

C.3.2.1.1 Analyze current mission performance, potential concepts across the Department of Defense (DoD); assess systems from allies and potential cooperative opportunities; review and provide input to concept of operations and descriptions of needed capability.

C.3.2.1.2 Review the Analysis of Alternatives (AoA) and the Initial Capabilities Document (ICD); review measures of effectiveness, cost, schedule, concepts of operations, and overall risk; assess the technology maturity, integration risk, manufacturing feasibility, technology maturation, and demonstration needs with proposed materiel solutions.

C.3.2.1.3 Provide input to the Technology Development Strategy (TDS) and the preliminary acquisition strategy; the cost, schedule, and performance goals for the total research and development program; Critical Program Information and potential countermeasures.

C.3.2.2 Technology Development. The contractor shall:

C.3.2.2.1 Review and provide input to the:

- C.3.2.2.1.1. Single Acquisition Management Plan (SAMP)
- C.3.2.2.1.2. Systems Engineering Plan (SEP)
- C.3.2.2.1.3. Life-cycle Sustainment Plan
- C.3.2.2.1.4. Test and Evaluation Strategy (TES)
- C.3.2.2.1.5. Test and Evaluation Master Plan (TEMP)
- C.3.2.2.1.6. Capability Development Document (CDD)
- C.3.2.2.1.7. Concept of Operations (CONOPS)
- C.3.2.2.1.8. Reliability, Availability, and Maintainability (RAM) strategy
- C.3.2.2.1.9. Reliability growth program
- C.3.2.2.1.10. Briefing material for program and milestone reviews.

C.3.2.2.2 Market Survey. Provide market surveys for: new technologies, new materials and/or new methods to detect, monitor, identify, protect and decontaminate against CBRNE materials. CBRNE materials are defined as traditional and non-traditional chemical and/or biological (CB) agents, detection materials, protection materials, decontamination materials, smoke producing materials, toxic industrial chemicals (TIC), toxic industrial materials (TIM), riot control substances, simulants, and toxic wastes and contaminants.

C.3.2.2.3 Assessment. Assess the maturity of technologies to be integrated into a full system; demonstrate the critical technology elements (CTEs) of system prototypes and hardware; identify, test and evaluate the performance of technology; perform assessments of technology readiness.

C.3.2.2.4 Design Studies. Perform and provide input to design studies of brass-board and prototype systems; document design hardware and software; complete and review engineering models and simulations to predict the performance of system software, hardware and architecture.

C.3.2.2.5 Prototype Development. Build and model prototype systems and subsystems for demonstration, test and evaluation; prove out production readiness of technology and design; verify models and simulations; collect and analyze performance data of systems and subsystems; conduct statistical analyses of experimental data to determine significance of measured effects and associated confidence levels; apply analytical techniques to refine and verify system algorithms and subsystems.

C.3.2.2.6 Analysis. Analyze and identify the reactions, mechanisms and dynamics which impact upon material design; synthesize chemicals and biological antibodies used for the research, development, test and evaluation; prove out flow, piping and instrumentation and synthesize research quantity materials.

C.3.2.2.7 Research and Development (R&D). Research and develop materials that are compatible with CBRNE materials.

C.3.2.2.8 Process Development. Develop processes for chemical or biological compounds; document process specifications, flow, piping, and instrumentation designs for process equipment; document material and energy balances for pilot production facilities and equipment.

C.3.2.3 Engineering and Manufacturing Development (EMD), Production and Deployment : The contractor shall:

C.3.2.3.1 Review and provide input to the SAMP, SEP; Life-Cycle Sustainment Plan, TEMP, Capability Production Document (CPD); CONOPS; RAM strategy; reliability growth program; and briefing material for program and milestone reviews;

C.3.2.3.1.1. Develop technical information to support the program management decision-making process;

C.3.2.3.1.2. Provide input to work products assigned to integrated product teams (IPTs), Test Integration Working Groups (TIWGs) and Joint Integrated Logistics Assessment teams;

C.3.2.3.1.3. Draft technical plans; IPT management plans; process and product Quality Assurance (QA) plans; risk management plans; operations and support plans and similar plans specified in individual orders

C.3.2.3.2 Conduct systems engineering to integrate, develop, manufacture, verify, train, deploy, operate, support, and dispose of systems throughout the materiel lifecycle.

C.3.2.3.3 Conduct system analysis and tradeoffs throughout the product development, integration, assessment process;

C.3.2.3.3.1. Review design for Human Systems Integration (HSI), producibility, affordability; interoperability, safety, utility and Critical Program Information (CPI) protection;

C.3.2.3.3.2. Review and provide input to draft manufacturing processes; supportability strategy and trade-offs to minimize the logistics footprint.

C.3.2.3.4 Design.

C.3.2.3.4.1. Design and document system hardware and software;

C.3.2.3.4.2. Provide input to system design reviews to characterize operational use, maintenance, and performance requirements;

C.3.2.3.4.3. Provide input to engineering drawings, specifications, QA requirements, packaging instructions, safety and environmental documentation;

C.3.2.3.4.4. Analyze and provide input to engineering change proposals, supporting rationale and documentation to improve operation, maintenance, and performance of the system;

C.3.2.3.4.5. Assess the benefits of alternate sources, material, and item configurations; ways to maximize use of commercial or modular hardware, standard and interchangeable parts;

C.3.2.3.4.6. Provide input to Software Requirements Specification, Interface Requirements Specification, Software Design Document, Interface Design Document, and Software Product Specifications.

C.3.2.3.5 Plan and assess system, subsystem hardware and software testing; conduct, collect data and evaluate Engineering Design Testing and demonstrations; witness Operational Testing and Logistic Maintenance Demonstrations (LMDs).

C.3.2.3.6 Defense Systems.

C.3.2.3.6.1. Develop and prove out production line, manufacturing procedures, inspection procedures, and acceptance test plans for production of defense systems;

C.3.2.3.6.2. Assess manufacturing and production methods;

C.3.2.3.6.3. Identify improvements in manufacturing and production methods through alternate processes, materials, dimensioning methods, and inspection or testing methods.

C.3.2.3.7 Quality.

C.3.2.3.7.1. Conduct quality engineering and QA planning for system development and acquisition;

C.3.2.3.7.2. Perform functional and physical configuration audits;

C.3.2.3.7.3. Provide input to quality inspection and First Article Test (FAT) plans;

C.3.2.3.7.4. Assess Independent Validation & Verification (IV&V) plans, software test plans, software test descriptions, and software test reports;

C.3.2.3.7.5. Perform pre-production testing; quality inspections and acceptance testing of defense systems and components;

C.3.2.3.7.6. Perform IV&V testing of software systems and components, develop IV&V test support tools and validate test support facilities and oversee software testing performed by a system developer.

C.3.2.3.8 Conduct Integrated Logistics Support (ILS) planning to facilitate development and integration of the logistics support elements required to acquire, test, and field CBRNE systems.

C.3.2.3.8.1 Input.

C.3.2.3.8.1.1. Provide input to maintenance plans, hardware and software maintenance concepts and requirements;

C.3.2.3.8.1.2. Provide input to maintainability programming and analyses;

C.3.2.3.8.1.3. Provide input to System Support Package Component Listing (SSPCLs), Reliability Centered Maintenance (RCM) studies, depot maintenance studies, preventive maintenance checks and services (PMCS) tables,

C.3.2.3.8.1.4. Assess proposed levels of repair, repair times, testability requirements, support equipment needs, training, manpower skills, facilities, type of (organic vs. contractor) repair mix, site activation, preventive maintenance programs, sustainment, performance based logistic (PBL) and post production software support plans.

C.3.2.3.8.2 Perform Logistic Support Analysis (LSA) for developed and modified hardware and software interfaces and components; review and update Logistics Management Information (LMI).

C.3.2.3.8.3 Provide input to proposed manpower and personnel plans and skills required to operate, maintain, and support systems over their lifetime.

C.3.2.3.8.4 Provide input to HSI (manpower, personnel, training, human factors, system safety, and health factors); identify design and performance issues, and develop and implement solutions.

C.3.2.3.8.5 Provide input to supply support plan; review management actions, procedures, and techniques necessary to determine requirements and to acquire, catalog, receive, store, transfer, issue and dispose of spares, repair parts, and supplies; review provisioning for initial support and plans to acquire, distribute and replenish inventories.

C.3.2.3.8.6 Prepare provisioning plans and Provisioning Parts Lists (PPLs); perform initial provisioning to identify repair and spare parts; screen the DoD repository to identify National Stock Numbers (NSN); perform post-provisioning actions to review repair and spare part usage.

C.3.2.3.8.7 Review Support Equipment (SE) required to support system operations and maintenance; identify common SE and Test, Measurement, and Diagnostic Equipment (TMDE); identify calibration procedures for equipment.

C.3.2.3.8.8 Review, prepare, provide input.

C.3.2.3.8.8.1. Review technical data, Technical Manuals (TMs), engineering drawings, instructions, and specifications;

C.3.2.3.8.8.2. Prepare TMs, Depot Maintenance Work Requirements (DMWRs), and Maintenance Work Orders (MWOs);

C.3.2.3.8.8.3. Prepare illustrations, line art, digital photographs for equipment publications;

C.3.2.3.8.8.4. Prepare plans to develop, validate, and verify equipment publications;

C.3.2.3.8.8.5. Provide input to: training and training support plans for New Equipment Training (NET), institution, sustainment, and Displaced Equipment Training (DET); maintenance and sustainment proficiency training;

C.3.2.3.8.8.6. Assess processes, procedures, techniques, Training Aids Devices Simulators and Simulations (TADSS), planning and provisioning for the training base including equipment used to train personnel to acquire, operate, maintain, and support a system.

C.3.2.3.8.9 Develop and conduct NET and sustainment training; develop syllabus, instructional materials and documentation, and TADSS used to facilitate instructions through which personnel will acquire concepts, skills and aptitudes to operate and maintain system/equipment with maximum efficiency.

C.3.2.3.8.10 Computer Resources. Review Computer Resources Support plans; assess resources, facilities, hardware, software, documentation, manpower and personnel necessary to manage mission critical computer hardware and software systems.

C.3.2.3.8.11 Review facility plans required to support mission;

C.3.2.3.8.11.1. Assess permanent and semi-permanent facilities required to support a system

C.3.2.3.8.11.2. Perform studies to define types of facilities or facility improvements, location, space needs, environmental and security requirements and equipment

C.3.2.3.8.11.3. Provide input to Packaging, Handling, Storage, and Transportation (PHST) plans

C.3.2.3.8.11.4. Assess resources, packaging, preservation, handling, storage and transportation required to maximize availability and usability of the materiel

C.3.2.3.8.11.5. Document packaging requirements and special packaging instructions for packing, marking and unitization to protect against environmental and physical conditions during shipment and storage

C.3.2.3.8.11.6. Provide design input to reduce packaging footprint and cost; and validate packing and packaging instruction through testing.

C.3.2.3.8.12 Assess advanced packaging technology, innovative methods and materials and commercially available materials that meet military requirements for preservation, cushioning and storage to enhance performance and reduce cost.

C.3.2.3.8.13 Review Design Influence and Interface; provide input to the system engineering process to facilitate supportability and maximize system availability, effectiveness and capability; provide input to the RAM program; provide data, predictions and evaluations on system RAM; perform a Failure Modes, Effects, and Criticality Analysis (FMECA); a configuration management (CM) analysis; a Logistics and Maintainability Demonstration; and an availability analysis.

C.3.2.4. Operations and Support: The contractor shall:

C.3.2.4.1 Provide Contractor Logistics Support (CLS) services of equipment in CONUS and OCONUS locations; maintain, repair, operate, and monitor equipment and provide reports of equipment availability and serviceability; maintain the stock levels of spare parts, repair parts, and consumables and resupply the equipment; provide periodic reports on the reliability, availability and maintainability of equipment being serviced.

C.3.2.4.2 Develop and provide input to system demilitarization and disposal plans; conduct system demilitarization and disposal in accordance with approved plans.

C.3.2.4.3 Provide input and support to chemical demilitarization programs.

C.3.3 **Research & Technology (R&T) Support** The contractor shall provide R&T support in the following areas: biosciences, chemical and biological (CB) detection, CB information systems technology, CB protection and decontamination sciences, chemical sciences, toxicology, aerosol science, obscurants, and veterinary services. This R&T support shall include, but not be limited to research, development, and analysis in both laboratory and non-laboratory environments.

C.3.3.1 Research: The contractor shall:

C.3.3.1.1 Provide Subject Matter Experts (SME) supporting hazard assessments, science and technology (S&T) deployments, vulnerability assessments, and knowledge management.

C.3.3.1.2 Conduct laboratory scale and/or prototype scale experiments to demonstrate and investigate the potential of the procedure technology under study for CBRNE materials.

C.3.3.1.3 Perform studies on the optimum methods and materials. Review the current state-of-the-art technology and recommend improvements or new approaches. Perform experiments to characterize full-scale technology demonstrators to determine the feasibility and limitations with regard to integration into future and legacy based system applications.

C.3.3.1.4 Conduct literature searches.

C.3.3.2 Development: The contractor shall:

C.3.3.2.1 Develop novel methods and design experiments for ongoing developmental programs.

C.3.3.2.2 Design, adapt and perform computer-based studies on the dynamics of CBRNE materials. The programs shall adapt existing models or develop new ones.

C.3.3.2.3 Develop and modify the in-house instrumentation.

C.3.3.2.4 Test candidate technologies, methods, and commercial items. Develop prototypes incorporating promising technologies and methods for proof of principle testing and improve and adapt commercial systems.

C.3.3.2.5 Develop mathematical descriptions that can be validated by full-scale testing.

C.3.3.3 Analysis: The contractor shall:

C3.3.3.1 Prepare and analyze CBRNE materials present in samples of interest to the CBRNE mission.

C.3.3.3.2 Plan and perform actual synthesis of compounds; characterize and analyze samples and supply these materials for evaluation.

C.3.3.4 Documentation: Document findings in formal reports, technical reports, publications, and presentations.

C.3.3.4.1 Maintain laboratories, laboratory cultures, equipment, and corresponding records and data logs in compliance with current QA/QC programs in support of the CBRNE mission.

C.3.3.4.2 Develop, maintain and service computer programs and information databases. Survey and assess information contained in databases. Develop new databases.

C.3.4 Program and Integration Support The contractor shall:

C.3.4.1 Provide such activities as management, safety, security, surety, medical and health, and environmental support. Support includes performing risk analyses; preparing environmental documentation; preparing, reviewing or processing standing operating procedures; conducting inspections; special studies, test plans and reports. Draft documents, public release articles, and reports in support of these tasks. Provide public outreach support.

C.3.4.2 Conduct studies and make recommendations on management-related areas. Participate in development of project scopes of work, strategic and business planning, communications, marketing and project execution.

C.3.4.3 Organize and facilitate workshops, seminars, symposia, and meetings. Develop and provide advance planning and read ahead packages. Conduct workshops or presentations.

C.3.4.4 Collect data and prepare, review, and revise responses to information and data requests from higher headquarters.

C.3.4.5 Provide program management support to technical reviews, symposia, and technical meetings. Provide responses to technical review issues or questions. Provide administrative support to include preparation of briefing packages, audio visual aids, handouts, technical reports, and other written materials.

C.3.4.6 Prepare, review, analyze, or propose changes to risk analysis and environmental documentation including documentation of comments on permits as required by the various federal, state and local agencies associated with material transportation, handling, processing, and disposal. Perform compliance inspections and reviews to ensure technical accuracy and completeness of documentation.

C.3.4.7 Examine records or perform physical inspections of accountable project property and provide recommendations for disposition of those items under utilized. Prepare documentation indicating the acquisition cost, serviceability, and other data necessary for disposal or transfer. Establish inventory control and management procedures for the use of material, equipment and hand tools.

C.3.4.8 Prepare, edit, and finalize technical reports, manuscripts, annual reports, and cost documents including briefing materials.

C.3.4.9 Develop, update and maintain internet and intranet web services to include static and interactive web pages, database access and website hosting.

C.3.4.10 Provide Earned Value Management (EVM) support to include performance measurement data analysis of schedule and cost; variances; identify trends in the program.

C.4 ASSIGNMENT OF TASK ORDERS.

C.4.1. The Contractor shall commence work upon assignment of specific task orders by the Contracting Officer. See Section H.19, Task Order Awards Among Contract Awardees.

C.4.2. Task orders will be assigned by the Contracting Officer only.

C.4.3. The Contractor shall not accept task orders from any other individual.

C.4.4. The Contracting Officer will forward the proposed task order to the Contractor for evaluation.

C.4.5. Within fifteen (15) calendar days (unless otherwise specified) of receipt of the proposed task order, the Contractor shall submit a proposal to the Contracting Officer, in writing, containing as a minimum, the estimated level of performance, materials, travel requirements, estimated cost, and period of performance or completion date.

C.4.6 The Contracting Officer may request the proposal include additional information such as the contractor's technical approach and demonstration of an understanding of the requirement.

C.4.7. Commencing Work

C.4.7.1. The Contracting Officer will initiate and conclude negotiations, and authorize the Contractor to proceed with the task by issuance of a task order to the contract.

C.4.7.2. The Contractor shall commence work upon assignment of the specific task order by the Contracting Officer.

C.4.7.3. The assignment of task orders by the Contracting Officer will be made with due consideration given to previously assigned and uncompleted tasks.

C.4.8. Performance of Tasks

C.4.8.1. The Contractor shall identify all correspondence, reports, drawings, and other pertinent papers furnished under the contract with the contract number and appropriate delivery order number.

C.4.8.2. Modifications to tasks shall be made by the Contracting Officer only.

C.4.8.3. The Contractor shall not modify tasks at the direction of any individual other than the Contracting Officer.

C.5 ADMINISTRATION

C.5.1. Each task assigned to the Contractor will have specific identified data deliverables on a Contract Data Requirements List (CDRL).

C.5.2. As a minimum, each task order (unless otherwise specified) shall require the Contractor to prepare and submit monthly progress reports (IAW Exhibit Line Item Number (ELIN) A001) and a final comprehensive report detailing all the efforts conducted and the results of those efforts (IAW ELIN A002).

C.6 CONTRACTOR MANPOWER REPORTING REQUIREMENT

C.6.1. The Contractor shall perform manpower reporting as follows:

C.6.1.1. The Contractor shall report all contractor manpower (including subcontractor manpower) required for performance of this contract using the format provided at the following web address:<https://cmra.army.mil>. The Contractor shall report directly to the website. The contractor shall include the following:

- C.6.1.1.1. Contract Number (W911SR-09-D-)
- C.6.1.1.2. Requiring Activity Unit Identification Code (W91B94)
- C.6.1.1.3. Command (Edgewood Chemical Biological Center)
- C.6.1.1.4. Contractor Contact Information
- C.6.1.1.5. Federal Service Code
- C.6.1.1.6. Direct Labor Hours
- C.6.1.1.7. Direct Labor Dollars
- C.6.1.1.7. Location Information

C.6.2 The Contractor shall provide the estimated total cost (if any) (CLIN 0002) incurred to comply with this reporting requirement. The reporting period shall be the period of performance not to exceed twelve (12) months ending 30 September of each government fiscal year and must be reported by 31 October of each calendar year.

C.7 LIST OF ACRONYMS

Acronym	Definition
AoA	Analysis of Alternatives
APG	Aberdeen Proving Ground
CB	Chemical and/or Biological
CBRNE	Chemical, Biological, Radiological, Nuclear, and Explosives
CDD	Capability Development Document
CDRL	Contract Data Requirements List
CLS	Contractor Logistics Support
CM	Configuration Management
CONOPS	Concept of Operations
CONUS	Continental US
CPI	Critical Program Information
CTE	Critical Technology Elements
DET	Displaced Equipment Training
DMWR	Depot Maintenance Work Requirement
DoD	Department of Defense
ECBC	Edgewood Chemical Biological Center
ELIN	Exhibit Line Item Number
EVM	Earned Value Management
FAT	First Article Test
FMECA	Failure Modes, Effects, and Criticality Analysis
HSI	Human Systems Integration
IAW	In Accordance With
ICD	Initial Capabilities Document
ID/IQ	Indefinite Delivery/Indefinite Quantity
ILS	Integrated Logistics Support
IPT	Integrated Product Teams
IV&V	Independent Verification and Validation
LMD	Logistic Maintenance Demonstrations

LMI	Logistics Management Information
MWO	Maintenance Work Order
NET	New Equipment Training
NSN	National Stock Numbers
OCONUS	Outside the Continental US
PBL	Performance Based Logistic
PHST	Packaging, Handling, Storage, and Transportation
PM	Program Manager
PMCS	Preventive Maintenance Checks and Services
PPL	Provisioning Parts Lists
QA	Quality Assurance
QASP	Quality Assurance Surveillance Plan
RAM	Reliability, Availability, and Maintainability
RCM	Reliability Centered Maintenance
RDECOM	Research, Development and Engineering Command
S&T	Science and Technology
SAMP	Single Acquisition Management Plan
SE	Support Equipment
SEP	Systems Engineering Plan
SME	Subject Matter Experts
SOP	Standard Operating Procedure
SSPCL	System Support Package Component Listing
TADSS	Training Aids Devices Simulators and Simulations
TDS	Technology Development Strategy
TEMP	Test and Evaluation Master Plan
TES	Test and Evaluation Strategy
TIC	Toxic Industrial Chemicals
TIM	Toxic Industrial Materials
TM	Technical Manuals
TMDE	Test, Measurement, and Diagnostic Equipment