



DEPARTMENT OF THE ARMY
UNITED STATES ARMY TANK - AUTOMOTIVE AND ARMAMENTS COMMAND
ROCK ISLAND, ILLINOIS 61299-7630

August 1, 2002

REPLY TO
ATTENTION OF

Heavy Combat Contracting Team

Mr. Jerry Cunningham
Astec Services Inc.
400 Fuller Wiser, Suite 128
Euless, Texas 76039

Dear Mr. Cunningham:

The United States of America, acting through the Contracting Officer, hereby issues a letter notice of award, DAAE20-02-C-0119, for acquisition of armor depot equipment repair service in support of the M48H and M60A3 Tanks on Foreign Military Sales (FMS) Case TW-B-YHK.

This letter constitutes a contract on the terms set forth herein and signifies the execution of the Department of the Army to execute a fixed price contract for the performance of the services as set forth in the enclosure marked "Attachment A", upon the terms and conditions therein stated, which is incorporated in and made a part hereof.

You are directed in accordance with the clause entitled "Execution and Commencement of Work" to proceed immediately to commence performance of the work, and to pursue such work with all diligence to the end that the supplies may be delivered or services performed within the time specified in Attachment A, or if no time is so specified at the earliest practicable date.

In accordance with the clause entitled "Contract Definitization", you shall submit a firm proposal for the articles and services covered by this letter. Your proposal shall be supported by a cost breakdown reflecting the price factors outlined in the suggested format enclosed, and any other information specified herein.

Please indicate your acceptance of the foregoing by signing this letter and returning it to this office.

-2-

This contract is entered into pursuant to 10 USC 2304(c)(2) and any required justification and approval has been executed.

Sincerely,



Roxanne M. Spurgetis
Contracting Officer

Executed on the date shown below:

By: Jerry Cunningham
Jerry Cunningham

President, Astec Services Inc.

(type above, name and position of
person executing this acceptance)

Date: 5 August 2002

ATTACHMENT A

LETTER CONTRACT

DAAE20-02-C-0119

BETWEEN

UNITED STATES ARMY
TANK AUTOMOTIVE AND ARMAMENTS COMMAND
ROCK ISLAND

AND

ASTECS SERVICES INC
400 FULLER WISER, SUITE 128
EULESS, TEXAS

This is an award for:

1. Troubleshooting/repair, and overhaul services necessary to return to complete operational capability the various earthquake damaged depot level test equipment listed in the Statement of Work (SOW).
2. The total ceiling price for this effort is \$5,559,808.00 subject to downward negotiation only.
3. Limitation of Government Liability - FAR 52.216-24
 - (a) In performing this contract, the Contractor is not authorized to make expenditures or incur obligations exceeding \$2,779,904.00.
 - (b) The maximum amount for which the Government shall be liable if this contract is terminated is \$2,779,904.00.
4. This award is funded at 50% of the ceiling price or \$2,779,904.00. Upon definitization the contract will be funded to the actual amount negotiated not to exceed the ceiling price of \$5,559,808.00.

5. Contract Definitization - FAR 52.216-25

(a) A firm fixed price definitive contract is contemplated. The contractor agrees to begin promptly negotiating with the Contracting Officer the terms of a definitive contract that will include (1) all clauses required by the Federal Acquisition Regulation (FAR) on the date of execution of this letter contract, (2) all clauses required by law on the date of execution of the definitive contract, and (3) any other mutually agreeable clauses, terms, and conditions. The Contractor agrees to submit a firm fixed price proposal and cost or pricing data supporting its proposal.

(b) The schedule for definitizing this contract is:

Submission of Firm Proposal	31 Aug 02
Beginning of Negotiations	28 Oct 02
Target date for Definitization	02 Dec 02

(c) If agreement on a definitive contract to supersede this letter is not reached by the target in paragraph (b) above, or within any extension of it granted by the Contracting Officer, the Contracting Officer may, with the approval of the head of the contracting activity, determine a reasonable price or fee in accordance with Subpart 15.8 and part 31 of the FAR, subject to contractor appeal as provided in the Disputes clause. In any event, the contractor shall proceed with completion of the contract, subject only to the Limitation of Government Liability clause.

(1) After the Contracting Officer's determination of price or fee, the contract shall be governed by -

(i) All clauses required by the FAR on the date of execution of this letter contract for either fixed-price or cost reimbursement contracts, as determined by the Contracting Officer under this paragraph (c);

(ii) All clauses required by the law as of the date of the Contracting Officer's determination; and

(iii) Any other clauses, terms and conditions mutually agreed upon.

(2) To the extent consistent with subparagraph (c)(1) above, all clauses, terms, and conditions included in this letter contract shall continue in effect, except those that by their nature apply only to a letter contract.

6. Execution and Commencement of Work - DFAR 52.216-23

The contractor shall indicate acceptance of this letter contract by signing one copy and returning to the Contracting Officer no later than August 5, 2002. Upon acceptance by both parties, the contractor shall proceed with performance of work, including purchase of necessary materials.

7. Accounting and Appropriation Data:

CLIN 0001

ARMOR DEPOT REPAIR

Acct Class: 97 110X0X8242 TWO1 X 6V 6V01 YHK02400000 2571

2BRB28 S11116

Ams-Cd YHK024

PRON: J528L011M1M1

Obligated Amount: \$2,779,904.00

Statement of Work:
Armor Depot Equipment Repair

(Rev. 21)

07-4-2002

1. General Scope

At the ORDC Tank Depot at Chi-Chi, Taiwan the Contractor shall provide the troubleshooting, repair and overhaul services necessary to return to complete operational capability the various (earthquake damaged) Republic of China-Army (ROCA) Depot level test equipment listed in this statement of work. All repair parts provided by the Contractor unless otherwise stated. When repair parts are unavailable the Contractor shall upgrade and modernize the test equipment to utilize currently available repair parts.

The Contractor shall design and manufacture the test equipment listed in this statement. training, document packages and test equipment spare parts shall be contractor provided. The Contractor shall procure AOS component overhaul spare parts, Fire Control System component overhaul spare parts and Depot Test Equipment spare parts as stated.

2.1 Boresight Station Overhaul

The Contractor shall perform repair and overhaul services to return the two existing M48H (earthquake damaged) boresight stations located at the ORDC third (3) plant, building 309, Chi-Chi Taiwan, ROC to complete operational status. The Contractor shall supply all repair parts. The Contractor shall begin the boresight station repair and overhaul immediately following contract signature. The Contractor shall rebuild the two stations to be convertible from M48H to M60A3 TTS boresight operation at a later date. Along with the M60A3 boresight materials the Contractor shall supply the M48H to M60A3 TTS conversion procedures and training. All repairs shall be accomplished within eighteen months of contract signature. The ROCA requires that the Contractor minimize the boresight station down time. Whenever possible, even during repairs, one boresight station should be operational. The services to include the following tasks:

a) Replace the damaged concrete floor cable pits, positioner-mounting foundations (pads), turret stand mounting foundations (pads) and grid board /collimator mounting foundations (pads) as necessary to facilitate boresight station operation and reduce further damages from seismic activity. The boresight station foundation will be structurally isolated from the surrounding shop floor. The turret stand, grid board stands and target board stand pads will be replaced and the new pads isolated and enforced to increase resistance to seismic shock. The boresight station floor must retain level to within 1/8" between the turret-mounting surface and the target board-mounting surface ($\pm 1/8''$). Repaint entire boresight staging area, target board and turret stands. Prior to commencement of structural foundation and flooring repair, stamped engineering drawings (**DI-SESS-81000B**) must be generated and approved by the designated ROCA case officer. At the completion of structural repair two copies of the final

engineering drawings will be presented to the ROCA case officer. All structural work performed to **California Seismic Code Standards** by a trained and certified seismic engineering firm.

- b) Repair/overhaul station #1 and #2 target positioners.
- c) Repair station #1 and #2 damaged target board (insure target board level to within 1/8" as per original target board drawings), resurface target boards, and realign targets.
- d) Repair / overhaul target board Thyristor power units (X2) and power cables (X6).
- e) Repair or replace, as required, station #1 and #2 target board control and power cables (X9).
- f) Repair station #1 and #2 turret stand remote control unit and stand power distribution panels.
- g) Reposition station #1 and #2 Turret Stands IAW ROCA direction.
- h) Repair/overhaul station #1 and #2 grid board/grid board positioners, collimators (daylight and thermal) and collimator positioners (X4).
- i) Repair/calibrate or replace, as required, the 105MM gun breech telescopes (X2), telescope mounting fixtures (X2), 105MM gun TTS mount alignment fixtures (X2) and mount alignment collimators (X2).
- j) Transit alignment of the Station #1 and #2 targets, target board and turret stands.
- k) Design and manufacture two (X2) M48H fire control hot mock-up units to operationally test the fire control system prior to in-vehicle installation and alignments (one (1) up-graded unit for demonstrations and display). Both hot mock-up unit will include necessary power supplies (X2), power cables, mounting brackets, industrial casters (2 fixed, 2 swivel) and English / Chinese component labeling. The operational hot mock-up unit will be supplied with a table mounted TTS swivel stand. The demonstration unit will be supplied with a vertically suspended TTS swivel mount.
- l) The Contractor shall provide one personnel safety sling (body harness) with progressive lanyard to be used in conjunction with the overhead crane to position personnel for target board/target positioning.
- m) The Contractor shall redesign the existing M48H target board and grid board stations to be convertible to M60A3 TTS operation at a later date. The conversion process must require no more than one-week to accomplish and be reversible at any time.
- n) The Contractor shall supply the M60A3 TTS grid boards (X2), target board targets (X2 sets), grid board collimators (X3 daylight), collimator stand and motorized El and Az positioners (X3), M60A3 turret slip rings (X2), M60A3 particular cables (X3), 105MM breech telescope fixtures and breech telescopes (X2), M60A3 TTS mount alignment fixtures and mount alignment collimators (X2).
- o) The Contractor shall provide procedures for the conversion of the existing boresight target boards and grid boards from M48H to M60A3 TTS grid board and target board operation.
- p) The Contractor shall provide a two-week (80 hour) hands-on M48H to M60A3 TTS conversion training course. Training material (**DI-ILSS-80872**) based upon contractor-developed conversion procedures. Training materials (8 sets) will include: Course Outline, Instructor Guide, Student Guide, Student Exercise Text and Exam/Evaluation Forms. All training materials and procedures will be prepared in English and Chinese. Class size limited to six students.
- q) The Contractor shall provide M60A3 TTS boresight, synchronization/alignment and grid boarding procedures.

r) The Contractor shall provide a two-week (80-hour) M48H/M60A3 boresight target board transit alignment hands-on training class to include training materials (**DI-ILSS-80872**). Training materials (8 sets) will include: Course Outline, Instructor Guide, Student Guide, Student Exercise Text and Exam/ Evaluation Forms. The training class and all training materials will be prepared in the English and Chinese language. Class size limited to six students.

s) The Contractor shall repair and calibrate the existing set of transit alignment equipment.

t) The Contractor shall not be held responsible for replacement of items lost or missing prior to commencement of contract. The Contractor shall inventory all equipment or assemblies prior to scheduled maintenance activity. ~~A defective item must be available for replacement, repair, overhaul or calibration.~~

2.2 Test Equipment Spare Parts

The contractor shall provide a recommended test equipment spare parts list (based on five years of operation) per **DI-ILSS-80134A** to include any unique and off the shelf equipment that the contractor considers critical and has a high failure rate. The unit price and recommended quantities shall be provided as part of this submission. The list shall be provided 6 months after contract award. The contracting officer will coordinate with ROCA Case Officer for final approval of this parts list. Upon negotiation, part numbers, prices, quantities and funding will be obligated via a contract modification.

M48H AOS Test Equipment:	M48H Fire Control Lab Test Equipment:
Automated Servo Electronics Test Station	Vate with Programmable Power Supply Unit
Automated Servo Hydraulic Test Bench	OAR Test Station
Automated Universal Electronics Test Station	Wind Sensor System Test Station
Automated Universal Hydraulic Test Bench	Turret System Cable Test Station
Automated Electronics Unit Test Station	Leak Check Test Station
Automated Gyro Unit Test Bench	Fluke 5700 System Calibration Unit
AOS Electrical Cable Test Station	SIM-80 Computer Test Station (X4)
High Voltage Test Station (Servo(Electronics))	Data Logger Computer System (X4)
Elevation Cylinder Test Fixture	Electronic Power Conditioning Unit
Gunners Control Handle Test Set	Cant Sensor Test Fixture
Gunners Control Box Test Station	Output Unit Test Fixture
28 VDC Power Rectifier Unit (Universal)	Oscilloscopes (X3)
Plotter / Printer Benches (X3)	Digital Multimeter (X3)
Power Conditioner Units 110 VAC / 220 VAC (X3)	Function Generator
High & Low Pressure Hydraulic Pump Stations (X2)	Pulse Generator

2.3 EPU and Wind Sensor Test Equipment Design and Manufacture

The Contractor shall design and manufacture one semi-automatic M48H Electronics Processor Unit (EPU) test station to test the five M48H EPU circuit cards to the component level. The Contractor shall also supply a commercial Pentium computer system with software, laser printer, digital multimeter and 100MHz oscilloscope with probes. The Contractor shall provide test station drawings (**DI-SESS-81000B**), test procedures (**DI-NDTI-80603**) for each circuit card under test and two weeks (80 hours) of formal classroom operator training. Training materials

(DI-LSS-80872) will include: Course Outline, Instructor Guide, Student Guide, Student Exercise Text and Exam/Evaluation Forms. The Contractor shall provide one English-speaking instructor and one Chinese-speaking instructor. Class size limited to six students. Test Station delivered fifteen months following contract signature with training to commence sixteen months following contract signature. All training materials and documentation shall be provided in the English and Chinese languages.

The contractor shall provide a recommended EPU test station and EPU cards spare parts list per **DI-ILSS-80134A** to include any unique and off the shelf equipment that the contractor considers critical and has a high failure rate. The unit price and recommended quantities shall be provided as part of this submission. The list shall be provided 15 months after contract award. The contracting officer will coordinate with ROCA Case Officer for final approval of this parts list. Upon negotiation, part numbers, prices, quantities and funding will be obligated via a contract modification with a 8 month period of performance.

The Contractor shall design and manufacture one semi-automatic M48H Wind Sensor test station capable of testing, to the component level, the eight (8) circuit cards of the three wind sensor models listed below:

NSN	1230-01-241-0438	Processor Card, Element Regulator Card
NSN	1230-01-207-1982	EMI Assembly, Processor #1, Processor#2, Flow Tube Card
NSN	1230-01-207-1982 Rev -G	Signal Processor, Receiver Card

The Contractor shall supply a commercial Pentium computer system with software, printer, digital multimeter, and 100MHz oscilloscope with probes. The Contractor shall provide test station drawings (**DI-SESS-81000B**), test procedures (**DI-NDTI-80603**) for each circuit card under test and two weeks (80 hours) of formal operator training. Training materials will include: Course Outline, Instructor Guide, Student Guide, Student Exercise Text and Exam/Evaluation Forms. All training materials (**DI-ILSS-80872**) and procedures will be prepared in English and Chinese. Class size limited to six students. The Contractor shall provide one English-speaking instructor and one Chinese-speaking instructor. The test station shall be delivered seventeen months following contract signature with training to commence eighteen months following contract signature. The test procedures and training materials shall be provided in the English and Chinese languages.

The Contractor shall provide a recommended Wind Sensor test station and wind sensor assemblies spare parts list per **DI-ILSS-80134A** to include any unique and off the shelf equipment that the contractor considers critical and has a high failure rate. The unit price and recommended quantities shall be provided as part of this submission. The list shall be provided 16 months after contract award. The contracting officer will coordinate with ROCA Case Officer for final approval of this parts list. Upon negotiation, part numbers, prices, quantities and funding will be obligated via a contract modification with a period of performance of 8 months.

The Contractor shall provide a one-week (40 hour) J-STD-001 IPC-7711 Military Standards (class3) Rework and Repair Solder Training Class. Solder stations and solder supplies provided

by the Contractor. All training materials (**DI-ILSS-80872**) (8 sets) and procedures will be prepared in English and Chinese. Class size limited to six students. The Contractor shall provide one English-speaking instructor.

2.4 Field Test Set Spare Parts Procurement

The Contractor shall provide a recommended spare parts list, per **DI-ILSS-80134A**, for the Field Test Set circuit boards listed below, to include any parts that the contractor considers having a high failure rate. The unit price and recommended quantities shall be provided as part of this submission. The list shall be provided 12 months after contract award. The contracting officer will coordinate with ROCA Case Officer for final approval of this parts list. Upon negotiation, part numbers, prices, quantities and funding will be obligated via a contract modification with a period of performance of 12 months. The parts shall be shipped to the ROCA designated freight forwarder.

a) Analog Interface Assembly	251978	b) Elevation Assembly	251058
c) Digital Input/Output Board Assembly	159653	d) Logic Board Assembly	159654
e) Central Processor Card	252177	f) Analog Output Board Assy	250297
g) Sensor Input Assembly	159592	h) Digital Output Board Assy	251982
i) System Interface Board Assembly	251986		

2.5 Test Station Computer System Upgrade, AOS Servo, AOS Universal, AOS Electronics, SIM-BO

The Contractor shall upgrade the M48H Automatic Servo Hydraulic Test Stand (TE 46813), M48H Universal Hydraulic Test Stand (TE 46814), and M48H Electronic Unit Processor/ Gyro Test Stand (TE46812) from “186” processor to Industrial Pentium III Computer configuration. The Contractor shall upgrade the software operating system, interpreter program and program instructions (software program) to conform to Pentium Computer configuration. Function of all tests must conform to current standards. The Contractor shall modify the calibration procedures (**DI-QCIC-81007**), as required, to operate with the new computer systems. Computer Systems up-grade will be complete twenty months after contract signature.

The Contractor shall provide a recommended spare parts list per **DI-ILSS-80134A**, for the Test Station Computer Systems, to include any unique and off the shelf equipment that the contractor considers critical and has a high failure rate. The unit price and recommended quantities shall be provided as part of this submission. The list shall be provided 12 months after contract award. The contracting officer will coordinate with ROCA Case Officer for final approval of this parts list. Upon negotiation, part numbers, prices, quantities and funding will be obligated via a contract modification with a period of performance of 8 months.

The Contractor shall upgrade the M48H Fire Control Simulator (SIM-BO) part # 161994-701 test stations (X4) from “486” processor configuration to Pentium III processor configuration. The Contractor shall provide a new hard drive, zip drive storage device and CD ROM capability for each station. The Contractor shall modify the SIM-BO to provide a printer port and provide a laser printer for each SIM-80 unit. The Contractor shall upgrade the SIM-80 software-operating

program to Chinese Windows 98 and modify the SIM-80 programs to operate with C Windows 98. The Contractor shall modify the calibration procedures (**DI-QCIC-81007**), as required, to operate with the new computer systems. Computer Systems up-grade will be complete twenty months after contract signature.

The Contractor shall provide a recommended spare parts list per **DI-ILSS-80134A**, for the SIM-80 Station Computer Systems, to include any unique and off the shelf equipment that the contractor considers critical and has a high failure rate. The unit price and recommended quantities shall be provided as part of this submission. The list shall be provided 12 months after contract award. The contracting officer will coordinate with ROCA Case Officer for final approval of this parts list. Upon negotiation, part numbers, prices, quantities and funding will be obligated via a contract modification with a period of performance of 8 months. Shipment of parts shall be to the ROCA designated freight forwarder.

The Contractor shall provide, twenty-one months from contract signature, one week (40 hours) of operator up-graded equipment familiarization and hand-on training for the Servo/Universal/ Electronics Test Stations and one-week (40 hour) of operator upgraded equipment familiarization and hand-on training for the SIM-BO Computer Systems. One English-speaking instructor provided. Training materials shall be based upon the up-graded procedures. Training materials (**DI-ILSS-80872**) (8 sets) shall be provided in English and Chinese languages. Class size is limited to six students.

2.6 AOS Gunner Handle and LVDT Electronic Alignment Test Set Design and Manufacture

The Contractor shall design and manufacture two 24 VDC M48H Gunners Handle Test Boxes to test the function of the gunners handles palm switches, laser fire switches, main gun/machine gun firing switches, manual elevation firing switches and to align the two gunner LVDTs. The test sets must be capable of operating off of tank battery power and will connect to the turret utility power connector.

The Contractor shall design and manufacture two 110 VAC M48H Gunners Handle Test Boxes to test the function of the gunners handles palm switches, laser fire switches, main gun/machine gun firing switches, manual elevation firing switches and to align the two gunner LVDTs. The test sets will operate off of standard 50-60 Hz 110 VAC line power.

The Contractor shall deliver the four test sets eighteen months following contract signature. The Contractor shall provide test set technical drawings (**DI-SESS-81000B**), a two-day (16 hour) operator training class (one instructor) and operator manuals (**DI-QCIC-81005**) in the English and Chinese language.

The Contractor shall provide a recommended spare parts list per **DI-ILSS-80134A**, for the M48H Gunners Handle Test Boxes, to include any unique and off the shelf equipment that the contractor considers critical and has a high failure rate. The unit price and recommended quantities shall be provided as part of this submission. The list shall be provided 18 months after contract award. The contracting officer will coordinate with ROCA Case Officer for final approval of this parts list. Upon negotiation, part numbers, prices, quantities and funding will be

obligated via a contract modification with a period of performance of 8 months. Parts shall be shipped to the ROCA designated freight forwarder.

2.7 M48H Overhaul Spare Parts Procurement

The Contractor shall provide a recommended spare parts list, per **DI-ILSS-80134A**, for the M48H component spare parts to repair defective backlogged M48H components at the ORDC depot and to provide repair parts for 550 tanks scheduled for overhaul. The unit price and recommended quantities shall be provided as part of this submission. See appendix A for initial overhaul spare parts list. Within six months of contract signature the Contractor shall present the final parts list to the contracting officer. The contracting officer will coordinate with ROCA Case Officer for final approval of this parts list. Upon negotiation, part numbers, prices, quantities and funding will be obligated via a contract modification with a period of performance of 12 months. Parts shall be shipped to the ROCA designated freight forwarder.

2.8 CVTTS Direct Support Repair Capability Training

The Contractor shall provide one Fire Control Engineer and one local Chinese technician to the ORDC Tank Depot for a period of two years and six months to commence immediately following contract signature. The Fire Control Engineer will establish direct support capabilities for the CVTTS system. The Fire Control Engineer's responsibilities shall include but are not limited to the following:

a) Develop Material Review Board (MRB) procedures at the ORDC Depot CVTTS repair shop.

b) Develop CVTTS direct support LRU and component testing and repair procedures utilizing existing TTS DS level test equipment and common fire control lab test equipment to test and repair the following LRUs:

1) Line of Sight Director (LOSD)	3195015-1
2) Thermal Sensor Unit (TSU)	3195045-1
3) Video Display Unit (VDU)	3195047-1
4) Thermal Electronics Unit (TEU)	3195048-1
5) Visible Sight Unit / Laser Rangefinder (VSU/LRF)	3195046-1
6) Commanders Video Display Unit (CVDU)	3195056-1
7) Control Panel Commanders & Gunners (CP)	3195000-1
8) Gun Trunnion Resolver (GTR)	3195022-1

c) Provide on the job training in electronic troubleshooting and repair capabilities to a small team of English speaking ROCA technicians (3 maximum).

d) Support the CVTTS system at the field unit locations. Provide in-vehicle-troubleshooting, inspection, alignment and repair support as directed by the ORDC case officer. Field support activities will be scheduled one week of each month.

e) Provide additional OJT to the organizational level maintenance personnel.

f) Generate list of common M60A3/M48H/M41D thermal parts.

g) Generate component spare parts lists. Generate special tools list.

- h) Provide assistance working with local contractors to generate local made spare parts.
- i) Provide test equipment troubleshooting and repair support for the hydraulic and fire control depot level test equipment located at ORDC. (All spare parts the responsibility of the ROC.)
- j) Assist the ROCA with the fabrication of special tools and test equipment.
- k) Translate generated procedures into the Chinese language.
- l) Design and manufacture CVTTS circuit board breakout boxes for the nine (9) CVTTS LRU's.
- m) Supply the following common lab test equipment:
 - 1) Oscilloscopes (X2) 100MZ Digital
 - 2) Digital Analyzer (X1)
 - 3) Digital Multimeter (X3)
 - 4) Function Generator (X1)
 - 5) Frequency Counter (X1)
 - 6) Two (X2) 0-50 VDC 30 AMP power supplies.
- n) Design and manufacture two (2) CVTTS mounting stands
- o) Design and manufacture two (2) hot mock-up stations to operationally test the CVTTS unit. The hot mock-up units will include power supplies, and mounting brackets.

p) The Contractor shall provide a recommended spare parts list per **DI-ILSS-80134A**, for the CVTTS System, to include any unique and off the shelf equipment that the Contractor considers critical and has a high failure rate. The unit price and recommended quantities shall be provided as part of this submission. The list shall be provided 12 months after contract award. The contracting officer will coordinate with ROCA Case Officer for final approval of this parts list. Upon negotiation, part numbers, prices, quantities and funding will be obligated via a contract modification with a period of performance of 12 months. Parts shall be shipped to the ROCA designated freight forwarder.

q) The Contractor shall provide one (1) maintenance van for use by the ROCA at ORDC. Cost for the van and in-country maintenance, insurance and vehicle operation expenses paid by contractor. Any traffic violations or vehicle damages not covered by The Contractor provided comprehensive insurance coverage would be the responsibility of the ROCA

2.9 Optical Test Equipment Procurement

The Contractor shall provide a Special Equipment Tools and Test Equipment List, **DI-ILSS-80868**, of optical test equipment to replace equipment lost or damaged during the 9-21-99 earthquakes. The Contractor shall evaluate the optics shop requirements and, within six months of contract signature, present the final list to the contracting officer. The contracting officer will coordinate with ROCA Case Officer for final approval of this parts list. Upon negotiation, part numbers, prices, quantities and funding will be obligated via a contract modification with a period of performance of 18 months. Parts shall be shipped to the ROCA designated freight forwarder. Commercial manuals, **DI-TMSS-80527A**, shall be provided for off-the-shelf test equipment.

2.10 Spare Parts Procurement, Shipping, Packing, Licenses and In-Country Storage

a) ~~In all cases, except section 2.7 "M48H Overhaul Spare Parts Procurement", the dollar amount indicated for spare parts procurement is exclusive of procurement costs. Procurement costs to include contractor fee, shipping, packing, insurance, licenses, etc... are in addition to the spare parts dollar value.~~

b) The Contractor shall be responsible for the consolidation and packing of all spare parts and deliverables associated with this effort. The Contractor shall utilize desiccant and vacuum packing techniques, as required, to maximize spare parts shelf life. The Contractor shall pay shipping and insurance from the parts manufacture to the consolidation point (contractor warehouse). Contractor FOB delivery of all parts, materials, test stations and test equipment to the ROCA designated freight forwarder from the Contractor's USA warehouse.

c) The Contractor shall be responsible for securing necessary export licenses and pay associated export licenses fees.

d) The Contractor shall purchase local (Taiwan manufactured) storage cabinets (2 door 5 shelf) sixteen (16) each, and bins (plastic) (quantity as required) necessary to store the spare parts detailed in this SOW. Spare parts will be stored within or adjacent to the workshop utilizing that particular spare part.

e) The Contractor shall provide a two-year material and workmanship warranty on contractor manufactured test equipment. Warranty to begin upon FOB delivery to Taiwan designated freight forwarder. Any warranty claim will be submitted in writing to the Contractor's US office. The Contractor shall respond to the ROCA designated officer within 2 weeks (14 days) of receipt of claim and take such action as to investigate and disposition claim. Acts of nature, abuse or misuse of test equipment not covered by warranty. All commercial supplied test equipment will be covered under original manufactures warranty.

f) The Contractor shall provide, to the ROCA case officer at the time of final spares list submission, cost analysis data consisting of price and vendor contact information for each spare part line item. Whenever possible, three quotes should be obtained. The Contractor must provide rationalization for providing less than three quotes... i.e. "Sources not available", "No Quote by vendor due to the following reason, " etc. The Contractor shall not be held liable for parts or materials not available or no longer in manufacture.

DOCUMENT SUMMARY LIST

System/Item: Armor Depot Equipment Repair Statement Of Work (SOW)

Identifies all first tier documents (cited in SOW) (applicable DIDs). Also included are all referenced documents (2nd, (includes DID block 10 references), 3rd and lower tier) which have been tailored.

DOCUMENT CATEGORY:

CATEGORY 0 - Unless otherwise specified in the solicitation, contract or contract modification, all requirements contained in the directly cited document and subsequently referenced documents are contractually for guidance and information only.

CATEGORY 1 - The requirements contained in the directly cited document are contractually applicable to the extent specified. Unless otherwise specified in the solicitation, contract or contract modification, all requirements contained in reference and subsequently referenced documents are contractually for guidance and information only.

CATEGORY 2 - The requirements contained in the directly cited document and the reference documents identified in the directly cited document are contractually applicable to the extent specified. Unless otherwise specified in the solicitation, contract or contract modification, all requirements contained in subsequently referenced documents within reference documents are contractually for guidance and information only.

Document Number (Contract Reference) Applicable Tailoring	Document Title	Document Date (DDMMYY) / Category
1A. MIL-DTL-31000B (Sec C, Para 2.1a, 2.3, and 2.6)	Technical Data Packages, General Specification for	14Dec01 CAT 1
1B. DI-DRPR-81000B (See CDRL)	Product Drawings and Associated Lists	11Sep89 CAT 1
2A. N/A (Sec C, Para 2.1p, 2.1r, 2.3, and 2.5)	Statement of Work	N/A CAT 1

3B.	DI-ILSS-80134A (See CDRL)	Proposed Spare Parts List	06Nov90 CAT 1

4A.	N/A (Sec C, Para 2.3)	Statement Of Work	N/A CAT 1
4B.	DI-NDTI-80603 (See CDRL)	Test Procedure	01Jun88 CAT 1

5A.	MIL-DTL-31000B (Sec C, Para 2.5)	Technical Data Packages, General Specification for	14Dec01 CAT 1
5B.	DI-QCIC-81007 (See CDRL)	Special Inspection Equipment Calibration Procedures	11Sep89 CAT 1

6A.	MIL-DTL-31000B (Sec C, Para 2.6)	Technical Data Packages, General Specification for	14Dec01 CAT 1
6B.	DI-QCIC-81005 (See CDRL)	Special Inspection Equipment Operating Instructions	11SEP89 CAT 1

7A.	N/A (Sec C, Para 2.9)	Statement of Work	N/A CAT 1
7B.	DI-ILSS-80868 (See CDRL)	Special Equipment Tools & Test Equipment	29Jun89 CAT 1

8A.	MIL-M-7298D (Sec C, Para 2.9)	Manuals, Commercial Off-The- Shelf	01FEB88 CAT 0
8B.	DI-TMSS-80527A (See CDRL)	Commercial Off-The-Shelf Manual and Associated Supplemental Data	21May97 CAT 0

See SOW for contractually binding instructions.