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SECTION A - SUPPLEMENTAL INFORMATION

The purpose of this amendment is to make the following changes:

- C.3.3 PKM/PKMS
- C.4 Communications Equipment - Please read entire section carefully.
- C.7.7 Body Armor
- C.7.8 Helmet with Cover
- C.7.9 Water Can
- C.7.10 Fuel Can
- C.8. Training - Clarify requirements at the four training sites.

Paragraph L.2.1.5 Change requirement for certification prior to proposal submission.
Paragraph L.2.2, change number of battalion and brigade sets to 15 and six respectively.

Attachment 1, the following pages have changes marked in italics: 45, 50, 51, 52, 53, 55, 56, 58, 60, 62, 75, 76, 77, and 78

*** END OF NARRATIVE A 003 ***

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SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

C.1 Statement of Work

C.1.1 Outline: This Statement of Work (SOW) articulates the requirements for equipping the Iraqi Armed Forces and associated security forces.

C.1.1.1 Security: The contractor shall be responsible for all security and transportation requirements for the equipment and its personnel until the time of acceptance.

C.1.2 Manuals for items identified in sections C.2 to C.7 (Not Separately Priced): Each item of equipment required in C.2 to C.7 shall be delivered with two operator manuals, one in English and one in Arabic (appropriate to Iraq). Both manuals shall contain identical information.

C.1.3 The contractor and its subcontractors agree to be a source of supply for parts support for the expected life of all equipment provided hereunder. The contractor shall notify the customer if a part will become unavailable to support the hardware and provide the customer the opportunity to acquire the necessary technical data allowing for separate acquisition to support the equipment.

C.1.4 Warranty

C.1.4.1 Hand-Off Warranty: Hand-off will be when the items is transferred to the IAF. This is anticipated within 60 days of delivery to the Government. Notwithstanding inspection and acceptance by the US Government/Iraqi Armed Forces (IAF) and associated security forces of the end items and services provided under the contract, or any provision of this contract concerning the conclusiveness thereof, the Contractor hereby warrants that the vehicles conform to the performance and manufacturing requirements specifically delineated in this contract/specification and will conform to the performance requirements defined in this statement of work. Under this warranty, the Contractor shall be liable for the correction of all failures/defects from final acceptance of the equipment up to and including hand-off to the user (IAF and associated security forces). All labor to correct hand-off defects will be performed by the contractor.

C.1.4.2 Material and Workmanship Warranty: Notwithstanding inspection and acceptance by the US Government/IAF and associated security forces of the end items furnished under this contract, or any clause concerning the conclusiveness thereof, the Contractor warrants that the end items will be free from defects in material and workmanship and will conform to the requirements of this contract for the duration of 12 months/57,936 km from the date of Hand-Off as defined above. This warranty covers all contract items, parts and labor, except for accident damage, misuse, alterations, damage due to lack of maintenance or use of fluids/lubricants not recommended, and normal maintenance and scheduled service items such as filters, screens, fluids, windshield wipers, and brake shoes. In the event of a failure under this warranty, the contractor shall provide the necessary parts and labor to make repairs within 72 hours of notification, at an Iraqi location designated by the US Government/IAF and associated security forces.

C.1.4.3 Pass-Through Warranties: To the extent the Contractors suppliers normally provide a commercial or trade practices warranty, the Contractor shall pass the identical warranty to the IAF and associated security forces. The Contractor shall provide a list of the warranted parts and assemblies to the Procuring Contracting Officer (PCO) 30 days after contract award, with one copy to the US Government/IAF and associated security forces designated in-country representative. The pass-through warranty list shall contain the manufacturer's name, part or assembly nomenclature, manufacturer (vendor or subcontractor) part number, item cost, and the extent (coverage and duration) of the warranty. Actual copies of subcontractor/vendor warranties shall also be provided to the PCO, with one copy to the US Government/IAF and associated security forces designated in-country representative, no later than 60 days after contract award.

The Contractor shall be responsible for administering all pass-through warranties to the terms of the supplier warranty. Pass-through warranties will start at the time specified by the Contractors suppliers. All remedies which the Government may seek as the result of such pass-through warranties will be brought against the Contractor and the Contractor shall administer such remedies in accordance with the supplier warranty terms and conditions. The cost for the warranty will be included in the price of each item.

C.1.5 Systems Integration:

C.1.5.1 It is our intent that all the equipment purchased in C.2 through C.7 below function together as required by its usage. Therefore, it is the contractors responsibility to insure both the physical interface and seamless operation of the items. Also, water pods and fuel pods must be installed on their respective vehicle.

C.1.5.2 At the point of equipment hand-off, equipment that is shipped in pieces or requires assembly must be put into final configuration and checked for function. For example, water pods and fuel pods must be installed on their prime movers and nozzles, spigots, etc., must be installed on pod. Radios must be installed in the vehicles and their functionality insured. Sighting equipment must be installed on weapons being supplied.

C.1.6 Maintenance: Regular maintenance for the items listed in this Statement of Work will be performed under a separate contract.

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C.2 Vehicles and Rolling Stock: New Only - All vehicles within this Statement of Work are expected to operate 57,936 km per year. Within this statement of work there are three families of trucks: medium trucks, (see C.2.1 and C.2.4), heavy trucks (see C.2.2 and C.2.6), and a recovery vehicle (see C.2.7) Vehicles within the same family shall have the same chassis and powertrain. Within the family, different driveline configurations (i.e., 4x4, 6x6) are allowed.

C.2.1 Medium Wheeled Vehicle:

- a. The vehicle shall have all wheel drive.
- b. The vehicle shall be capable of operation on a variety of surfaces and terrains ranging from desert environment to hard surface streets. The vehicle shall be operable on these surfaces at all vehicle loading conditions.
- c. The vehicle shall be capable of operating in temperatures ranging from -23 C to +52 C.
- d. The vehicle shall be capable of ascending and descending grades of 40% in the longitudinal direction.
- e. The vehicle shall be capable of ascending a 5% grade at a minimum speed of 40 kph while towing a fully loaded trailer as specified in C.2.8.
- f. The vehicle shall be capable of traversing side slopes up to 30% with either side of the vehicle facing upslope.
- g. The vehicle shall have a minimum range of 450 km on internally carried fuel.
- h. The vehicle shall have a minimum speed of 95 kph in the highest gear and not less than 4 kph in the lowest gear.
- i. The vehicle shall be equipped with service brakes. The service brakes shall be capable of bringing the vehicle traveling at 32 kph to a complete stop within 10 meters. The service brakes shall meet this requirement at all conditions of loading on a hard, dry, level surface that is free of loose material.
- j. The vehicle shall have a manually operated park brake. The park brake shall be capable of holding the vehicle with a payload of 960 kg motionless on a 40% grade in the longitudinal direction. The park brake shall be capable of holding the vehicle motionless with the vehicle facing in either the upgrade or downgrade direction.
- k. The vehicle will be used in urban environments and shall be equipped with headlights, front and rear turn signals, windshield wipers, brake lights and rearview mirrors.
- l. The vehicle shall be capable of carrying six soldiers (including the driver) equipped with ruck sacks, weapons (see section C.3/2000 series CLINS) and individual equipment. Seating arrangement shall be designed to provide individual seating locations for each of the six soldiers equipped with weapons and individual equipment. Space for the ruck sacks may be at the soldier seating location or in a separate storage area within the vehicle.
- m. The vehicle shall have a minimum payload capacity of 960 kg.
- n. The vehicle shall have a diesel engine.
- o. The vehicle shall be capable of being towed by the recovery vehicle specified in C.2.7 Recovery Vehicle.
- p. The vehicle shall have a 12 or 24 volt DC electrical power source. The power source shall be capable of providing electric power to support the base vehicle power requirements.
- q. The vehicle shall be provided with provisions to mount the radio system specified in C.4.2.
- r. The vehicle shall have a minimum of one 24 volt DC accessory outlet in the crew cab. The accessory outlet shall be designed to mate with the connector for the radio system specified in C.4.1, C.4.2, C.4.3, and C.4.6.
- s. The vehicle shall be Desert Tan in color.
- t. The vehicle shall be equipped with a winch. The winch and winch mount shall be capable of a minimum single line pull equal to the vehicle curb weight plus a payload of 960 kg. The winch cable shall be a minimum of 30 meters in length and have a safety factor of 50% over the maximum line pull capability of the winch.
- u. The vehicle shall be equipped with blackout lighting.
- v. Vehicle shall be equipped with a towing pintle. The vehicle at curb weight with 960 kg of cargo shall be capable of towing a fully loaded trailer as specified in C.2.8. The minimum pintle rating shall be equal to the weight of the fully loaded trailer as described in C.2.8. The vehicle shall have a connector to provide electric power to the trailer. The connector shall be compatible with the trailer specified in C.2.8.
- w. The crew seating area and the cargo area shall be enclosed from the elements.
- x. The vehicle shall be equipped with a full size spare tire, sand jack, pioneer tools (shovel, axe, pick minimum requirement) and tire changing equipment. The vehicle shall have a permanent storage location for these items.
- y. Reserved.
- z. The vehicle shall be equipped with all weather and all terrain radial tires. The tires shall be designed to operate both off road and on road.
- aa. The vehicle shall be equipped with two 20 liter Jerry cans. The Jerry cans shall be mounted on the rear of the vehicle. The mount configuration should not limit ingress or egress from the rear vehicle when the jerry cans are installed.
- ab. The vehicle shall be equipped with four lifting shackles, two in the front and two in the rear. The capacity of the shackles shall allow the vehicle to be lifted at a weight equivalent to the vehicles curb weight with a payload of 960 kg.
- ac. The vehicle shall be equipped with a minimum of 2.5 LB ABC Type Fire extinguisher with mounting bracket.
- ad. If equipped with ignition and door locks, all ignition and door locks shall be identically keyed for all vehicles.
- ae. The item shall be delivered with the routine maintenance spares listed in Attachment 6.

C.2.2 Heavy Wheeled Vehicle:

- a. The vehicle shall have a diesel engine.
- b. The vehicle shall have all wheel drive.

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- c. The vehicle shall have a cab type drivers compartment and a covered flat cargo bed with access through the rear. The cover shall be removable for the cargo bed. The crew seating area and the cargo area shall be enclosed from the elements.
- d. The electrical system shall be 24 volts DC. The vehicle shall have a minimum of one 24 volt DC accessory outlet in the crew cab. The accessory outlet shall be designed to mate with the connector for the radio system specified in C.4. The electrical system shall be compatible with the trailer electrical systems.
- e. The vehicle will be used in urban, cross country, and sand environments. The vehicle shall be equipped with operational and safety equipment to include head lights, blackout lights, turn signals, towing connections, windshield wipers, brake lights and rearview mirrors.
- f. The vehicle shall be equipped with a stowage box containing a wide base jack providing extra stability on loose sand. Other tools necessary to change a tire shall be included. Pioneer tools including minimum of a shovel, pick, and axe shall be included.
- g. A spare tire and wheel, identical to the vehicles other tires shall be mounted on the vehicle.
- h. The vehicle shall be capable of operating in a temperature range of -23 to 52 C.
- i. With rated load of 2560 kilos minimum, the vehicle shall be capable of a sustained high speed of 80 kph and not less than 4 kph in the lowest gear, on a level highway.
- j. With the rated payload of 2,560 kilos (min), the vehicle shall be operated without slipping or upsetting when ascending or descending longitudinal grades of 40% and when crossing side slopes of 20%.
- k. The truck shall be equipped with service brakes which shall bring the truck with a rated load to a stop from 32 Km/h within 10 meters. The road surface shall be paved, smooth, and level.
- l. A manually operated parking brake and chock blocks shall hold the truck with the rated payload on a 40% grade headed up or down grade with rated load.
- m. The color of the vehicle shall be desert tan.
- n. The vehicle shall be capable of carrying sixteen soldiers including their equipment for a total weight of 2560 kilos of cargo, and a driver and a passenger (320 kilos). The vehicle shall be equipped with bench seats along the cargo sides for the cargo area which fold down when additional cargo room is needed. Stake side racks shall be included for the cargo area.
- o. Radio mounts and electrical connection shall be provided in the cab compatible with radios specified in C.4.1 and C.4.2.
- p. Pintle shall be capable of safely towing full loaded trailers as described in C.2.5, C.2.9, and C.2.10.
- q. The vehicle shall be equipped with a minimum 10 LB ABC type fire extinguisher for ammo cargo and 5 LB ABC type fire extinguisher with mounting bracket for vehicle protection.
- r. The vehicle shall be equipped with safe lifting shackles positioned so that a lifting sling shall not damage the vehicle.
- s. Vehicle shall be equipped with a winch. The winch, winch mount and cable shall be capable of a minimum single line pull equal to the curb weight plus a payload 2560 kilos and shall have a safety factor of 50%. The winch cable shall be minimum of 30 meters in length.
- t. Wheel chocks shall be provided to be used when operating winch.
- u. Vehicle shall be equipped with all weather and all terrain radial tires. The tires shall be designed to operate both off and on road.
- v. Bow and tarp kit providing an enclosure height of 1.52 meters above cargo floor is required over cargo area. Sides of the tarp should be removable or capable of being rolled up to allow quick entry and exit.
- w. If equipped with ignition and door locks, all ignition and door locks shall be identically keyed for all vehicles.
- x. The vehicle shall be equipped with two 20 liter Jerry cans. The Jerry cans shall be mounted on the rear of the vehicle. The mount configuration should not limit ingress or egress from the rear vehicle when the jerry cans are installed.
- y. The item shall be delivered with the routine maintenance spares listed in Attachment 6.

C.2.3 Motorcycle:

- a. System Definition. The vehicle is a lightweight, all terrain vehicle capable of operating on primary roads, unpaved roads and on cross-country terrain. All parts of the vehicles shall be of such material and strength as to properly sustain as a minimum the payloads stated herein. This vehicle is a Non-Developmental Item (NDI) which will be either of commercial or military design.
- b. Range. The vehicle at Gross Vehicle Weight (GVW) shall be capable of operating on internally carried fuel for a minimum distance of 200 km at an average speed of 40 kilometers per hour (kmh) on Secondary road.
- c. Speed. The vehicle at GVW shall be capable of maintaining a minimum speed of 81 kmh while ascending a slope of up to five (5) percent on a smooth, dry and hard surfaced road, for not less than 3 km and 40 kmh over a Secondary road for no less than 16 km without any malfunction of any component that may cause vehicle failure. The vehicle shall also be capable of maintaining a speed of not more than 8 kmh on a smooth, dry and hard surface road with the transmission in low speed range for not less than .4 km without any malfunction of any component that may cause vehicle failure.
- d. Acceleration. The vehicle at GVW shall be capable of acceleration from 0 to 50 kmh in no more than 6.0 seconds on a smooth, dry and hard surfaced road ascending a slope of up to five (5) percent.
- e. Gradeability. From a standing start at the base of the slope with the front wheel adjacent to the slope, the vehicle at GVW shall ascend a smooth, dry, and hard-surfaced 60 percent continuous slope of 24.7 meters in length. The vehicle shall evidence no fluid leakage, engine stalling/rough running or tire or chain slippage.
- f. Brakes. The vehicle shall be equipped with front and rear brakes. The vehicle brakes shall meet the standard commercial performance requirements. The brakes shall control and hold the vehicle on a 60 percent up-slope and down-slope.
- g. Side Slope. The vehicle at GVW shall function and be stable while on side slopes up to 40 percent, with each side of the vehicle up-slope, at speeds up to 8 kmh while traveling in a sine wave pattern. As a result of the operation, no evidence of

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instability, fluid leakage or other-malfunction shall be found. The slope surface shall be smooth, dry and hard.

h. Vertical Step. The vehicle at GVW shall be capable of negotiating an 18 cm vertical step.

i. Emergency Operation. The vehicle shall be able to carry two individuals (operator and passenger) for 8 km at a minimum average speed of 16 kmh on a Secondary road without any damage to the vehicle. The operator and passenger weight shall be 181.5 kg (+/- 2.26 kg).

j. Gross Vehicle Weight. The vehicle weight with a payload of 113.4 kg shall not exceed the commercially rated Gross Vehicle Weight.

k. Finished Surfaces. The vehicle shall be furnished painted Desert Tan. Surfaces on the engine exhaust head pipe and cooling fins of an engine that are used for heat transfer shall be painted with a black lusterless heat resistant paint.

l. Climate Conditions. The vehicle shall be capable of operating under the range of climatic conditions from -23 degrees centigrade to + 52 degrees centigrade.

m. System Safety Requirements. The vehicle shall be free of sharp projections and/or edges that may cause operator injury. Drive train chains, sprockets and other open componentry shall be located or shielded to prevent operator injury or snagging of clothing. Hot engine components and exhaust pipe shall be sufficiently shielded to prevent operator contact during operation of the vehicle. The fuel and exhaust systems shall be configured to prevent contact of leaking fuel with exhaust components.

n. Engine. The engine shall be not less than 250 cubic centimeters (cc), displacement or larger than 400 cc displacement. The engine shall operate efficiently using standard fuels and lubricants without mixing.

o. Fuel Tank. The fuel tank shall have a vented, leak-proof gas cap.

p. Air Cleaner System. The vehicle shall be equipped with an air cleaner that is located to prevent damage to the filter element.

q. Reserved.

r. Exhaust System. Vehicle exhaust system shall be located to prevent burning, charring or damaging the electrical wiring, the fuel system or any other combustible part of the vehicle. The exhaust shall discharge at the rear of the vehicle.

s. Start system. Vehicle shall have a manual and electric kick start capability.

t. Rim, Tires and Tubes. Heavy duty safety rims and either tube-less or tube-type tires with on/off road tread. Inner tubes if provided shall be heavy-duty type and provided with flaps

u. Skid Plate. Vehicle shall be equipped with a skid plate(s) that protects the engine and lower frame during off-road operation and not accumulate debris or mud.

v. Ignition Lock. If equipped, all ignition locks on all vehicles delivered under the contract shall be identically keyed and shall allow for any one key to operate any ignition lock.

w. All vehicles shall be equipped with right and left, shock mounted rearview mirrors, a seat that is capable of accommodating an operator and a passenger, speedometer, front, rear, left, and right shock mounted turn signals, 12 volt heavy duty combination tail light/brake light and headlight with high and low beams . Lamps shall be vibration resistant heavy duty type.

x. Tools. A tool kit shall be provided with the vehicle. The tool kit shall be carried in a tool container that is permanently affixed to the vehicle in such a way that it does not interfere with the driver and operation of the vehicle. The tool container shall contain enough space to carry the tool kit; operators manual. If equipped with a lock all shall be keyed the same. The tool kit shall allow the performance of required operator maintenance.

y. Vehicle Support. The vehicle shall be equipped with either a side or center support device capable of supporting the motorcycle GVW.

z. Auxiliary Equipment. The vehicle shall be equipped with the required auxiliary equipment. The vehicle configuration shall permit mounting/storage/interface of the equipment without adverse effect on vehicle handling, operation and maintenance characteristics of the basic motorcycle. Removal of the equipment from the vehicle shall not impair the equipment or basic function of the vehicle. The auxiliary equipment identified to further enhance the military motorcycle capabilities are as follows:

- (1) A rifle scabbard capable of retaining an AK47 (or AKM).
- (2) Detachable document carrying case capable of protection of contents.
- (3) A full face helmet, size medium, color - Desert Tan.

aa. The item shall be delivered with the routine maintenance spares listed in Attachment 6.

C.2.4 Ambulance Vehicle:

a. This is the ambulance vehicle for the medical section. This vehicle shall be a standard ambulance variant of the medium utility vehicle.

b. The vehicle shall meet all the requirements specified for the Medium Wheeled Vehicle specified in Section C.2.1 except a winch is not required and the following is required:

c. The vehicle shall have a enclosed compartment dedicated to transporting and treating patients.

d. The patient compartment shall be capable of carrying a minimum of two patients on stretchers or a minimum of four ambulatory patients and their rucksacks, weapons (see section C.3/2000 series CLINs), and individual equipment.

e. The patient compartment shall also provide sufficient area for a medic to treat the patients when transporting a minimum two patients on stretchers or four ambulatory patients and their rucksacks, weapons (see section C.3/2000 series CLINs), and individual equipment.

f. The patient compartment shall be equipped with a means to secure a minimum of two stretchers with patient to prevent the patients from falling out of the stretcher while the vehicle is in operation.

g. The patient compartment shall be equipped with a minimum of two stretchers, 2 backboards, 4 IV hooks, and an EMT first

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aid kit containing:

- (1) 20 - approximately 1 inch x 3 inch adhesive bandages
- (2) 4 - triangular sling/bandage
- (3) 2 - approximately 4 inch x 4.1 yard gauze roll bandages
- (4) 1 - approximately 6 inch x 4.1 yard gauze roll bandage
- (5) 2 - approximately 3 inch x 5 yard latex free elastic bandages
- (6) 10 - approximately 2 inch x 2 inch gauze dressing pads
- (7) 10 - approximately 3 inch x 3 inch gauze dressing pads
- (8) 10 - approximately 4 inch x 4 inch gauze dressing pads
- (9) 1 - approximately 12 inch x 30 inch multi-trauma dressing
- (10) 2 - approximately 8 inch x 10 inch trauma pad
- (11) 3 - approximately 5 inch x 9 inch trauma pad
- (12) 12 - Antiseptic cleansing wipes
- (13) 12 - single use triple antibiotic ointment packets
- (14) 1 - approximately 1 inch x 10 yard waterproof medical tape
- (15) 1 - approximately 3 inch 10 yard porous cloth athletic tape
- (16) 1 - approximately 4 inch x 5 inch instant cold compress
- (17) 2 - approximately 6 inch x 9 inch instant cold compress
- (18) 1 - approximately 7 inch utility shears
- (19) 1 - approximately 3 inch tweezers - stainless steel
- (20) 8 - exam quality gloves (4 pairs)

- h. The Red Crescent insignia shall be on both sides, front, rear, and top of the vehicle. The insignia shall be the largest size that can be placed on these surfaces with a maximum size requirement of 1 meter x 1 meter square.
- i. The patient compartment shall have internal lighting for treating patients.
- j. The patient compartment shall have natural ventilation and/or air conditioning.
- k. The ambulance shall include a means of communication between the cab area and patient compartment.
- l. An oxygen system shall be included with a minimum 1,200 liter capacity. The system shall be capable of delivering 15 liters per minute to two patients simultaneously.
- m. The item shall be delivered with the routine maintenance spares listed in Attachment 6.

C.2.5 Water Trailer

- a. Towed water trailer that will carry potable water for the Military.
- b. The trailer shall be capable of off-road movement in a desert environment, weather & terrain conditions found in the nation of Iraq, 52 degrees C, -23 degrees C, ambient.
- c. Shall have a brake system connectable & compatible to heavy wheeled vehicle.
- d. Shall have a retractable trailer stand to tilt the trailer up & down.
- e. Shall be capable of carrying 2,000 liters of potable water in the tank. The tank shall have a removable top cover for filling and cleaning.
- f. The materials used in the construction or treatment of surfaces which may come in contact with potable water during use shall have no adverse effect on the health of personnel. Materials used shall be non-toxic, non-absorbent, resistant to cleaning with bactericidal solutions, and shall not contaminate the water. Parts, fittings, and piping in contact with the water shall be of corrosion resistant material not affecting the potability.
- g. The water trailer will be compatible with and be capable of being towed by C.2.2, heavy wheeled vehicle. This includes wiring connections for brake lights and turn signals, as well as the towing connections. The trailer shall be equipped with turn signals and brake lights.
- h. The water tank shall have two spigots and a drain for purging and cleaning the water tanks.
- i. The two spigots will be male threaded to receive a garden hose.
- j. The tank and trailer shall be desert tan in color.
- k. The water trailer shall have radial on/off road tires.
- l. The item shall be delivered with the routine maintenance spares listed in Attachment 6.

C.2.6 Refueling Vehicle/Tanker:

- a. The refueling vehicle shall consist of the heavy wheeled vehicle (in C.2.2), with the exception of the following requirements: capacity to carry sixteen soldiers, and Bow and Tarp kit. It shall have a refueling pod. The vehicle shall carry a driver/co-driver and their equipment (320 kilos) The refueling pods dimensions will fit on the bed of this heavy wheeled vehicle and be compatible with it.
- b. The refueling pod will have a capacity of not less than 3,000 liters.
- c. Reserved.
- d. The refueling pod will be unpressurized and have two fast flow rate refueling lines, one on each rear side of the refueling pod.
- e. These two lines will allow simultaneous refuel of two vehicles, one on each side of the tanker. The fuel pod will be gravity fed as well as have a fuel pump.

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f. There will be a minimum 20 lb Fire Extinguisher with mounting bracket for fuel cargo. protection and a 5 lb. Fire Extinguisher with mounting bracket for vehicle.

g. A grounding line for refueling operation shall be provided.

h. All materials that come in contact with diesel fuel shall be compatible with diesel fuel.

i. The refueling pod shall be fabricated from compatible materials, inherently corrosion resistant or treated to provide protection against the various forms of corrosion and deterioration that may be encountered in any of the applicable operating and storage environments to which the refueling pod may be exposed.

j. The refueling pod shall perform in any ambient temperature from -23 deg. Celsius to 52 deg. Celsius.

k. All shafts or rotating parts of the refueling pod shall be guarded when such parts are exposed to contact by personnel or otherwise create a hazard. Electrical wiring and equipment shall be located or protected to prevent damage from fuel spills or overflows. Electrical equipment shall be effectively guarded and grounded to protect all persons and objects from electrical shock hazard.

l. The refueling pod shall be transportable without evidence of malfunction, permanent deformation, or damage to the tank, pump, or components when operated Over hard-surfaced roads, gravel roads, and cross-country terrain.

m. The refueling pod shall withstand the effects of emergency stops at forward speeds up to convoy speeds and at reverse speeds up to 16Km/h without permanent deformation, failure, or damage to the mounting or securing systems and without malfunction or damage to the refueling pods, or failure to operate at rated capacity.

n. The refueling pod must have four lift points for removal from the vehicle. These attachments must be included with the refueling pod.

o. The tank shall be equipped with a self priming pump.

--The pump unit assembly shall withstand a hydrostatic pressure of not less than 344.5KPa without leakage through any component or connection. The contractor shall self-certify to this.

--The complete pumping assembly, as assembled prior to shipment, shall be subjected to an air pressure test of not less than 69KPa without leakage through any component or connections. The contractor shall self certify to this.

-- The pump unit assembly shall have a continuous electrical circuit between the nozzle bonding wire and the ground wire bonding clip.

p. If a PTO driven fuel pump is used an electric motor is not required. Is supplied, the electric motor assembly complete with all receptacles and connectors shall be explosion proof. The electric motor assembly complete with all receptacles and connectors shall be splash proof.

q. The filter separator assembly should be included to provide fuel free of contaminants when necessary.

r. External surfaces shall be painted desert tan color.

s. The item shall be delivered with the routine maintenance spares listed in Attachment 6.

C.2.7 Recovery Vehicle: This is the recovery vehicle for the motorized rolling stock of the battalion.

a. The vehicle shall be capable of recovery/evacuation of any fully loaded vehicle/trailer identified in this Statement of Work across the desert environment (-23 to +52 degrees C) with a two soldier crew through the use of tools and onboard equipment (i.e., tow bar, chock blocks, ground anchors, pulleys, winches, etc.)

b. The vehicle shall be equipped with provisions for attachment of ground chocks (spades) at the rear of the vehicle, both in the longitudinal and transverse direction.

c. The vehicle shall be equipped with a boom and winch capable of lift towing all vehicles and rolling stock in this statement of work. The winch shall have a braking system for lowering and raising the load. The boom and winch shall be capable of operation without the removal of other vehicle components/assemblies. Alternate lifting devices/configurations are acceptable.

d. The vehicle shall be equipped with a shelter/tent extension for weather protection for the operator of the crane controls. The shelter/tent extension shall be desert tan in color.

e. The vehicle shall be equipped with tools, equipment and (vehicle powered) accessories including, but not limited to, the following items:

-Air Compressor

-Air powered tool set to include impact driver, grinder

-Mounted vise

-Floor jack, sand jack, air jack and airbag jack

-Oxy acetylene cutting equipment

-All towing/lift accessories to be included.

-Tow bar, chock blocks, ground anchors, pulleys, winches, etc. Towbars shall be compatible with the other vehicles.

-Each recovery vehicle will contain a comprehensive mechanics tool box. This tool set must have both metric and standard tools. It should be equivalent or better than the Sears Craftsman 546 piece tool set #: 00933446000 and include a carrying case(s).

f. The vehicle shall be equipped with a heavy duty recovery winch. The end of the wire rope shall be equipped with a clevis. When in the stowed position, the free end of the heavy-duty winch clevis shall not be permitted to strike or cause damage to any vehicle component. A means for securing the clevis when in the stowed position shall be provided.

g. The heavy duty recovery winch shall be operated by controls mounted on one side of vehicle. The heavy duty recovery winch shall have a minimum capacity of 12000-kg.

h. The vehicle shall also be equipped with a winch for self recovery. The self recovery winch shall have a minimum capacity of 6800-kg.

i. The vehicle shall be equipped with a spare wheel and tire assembly. The vehicle shall be equipped with sufficient tools

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and equipment, to facilitate tire/wheel removal on the assembly on both hard and soft surfaces.

- j. The vehicle shall be equipped with a minimum 5 LB ABC type fire extinguisher mounted within the cab interior and shall be detachable to allow removal from the cab.
- k. The vehicle shall be equipped with a minimum 10 LB ABC type fire extinguisher for cargo protection and shall be mounted on the exterior of the truck. Mounting shall be installed so that the extinguisher is easily accessible to the operator.
- l. The vehicle shall be equipped with blocks and tackle and possess an articulated crane capable of lifting approximately 2,500 to 3,000 kilos.
- m. The crane shall be provided with an overload shutdown, which shall preclude structurally overloading the crane. The crane's function shall cease when the crane's capacity is exceeded, except to allow lowering of the overload.
- n. The vehicle shall be equipped with appropriate extensions/stabilizers to safely support the vehicle and lifted cargo during lift operations.
- o. The vehicle shall be capable of carrying cargo and supplies.
- p. The vehicle shall be painted Desert Tan in color.
- g. If equipped with ignition and door locks, all ignition and door locks shall be identically keyed for all vehicles.
- s. The item shall be delivered with the routine maintenance spares listed in Attachment 6.

C.2.8 Cargo Trailer

- a. Identifies the performance and definition requirements for a 500 to 700 kilo payload Cargo Trailer. This cargo trailer is for use in desert conditions, (terrain, weather and temperature, (-23 to +52 degrees C.), on and off road,) such are found in the nation of Iraq.
- b. The trailer must be compatible with, and be capable of being towed by, the Medium Wheeled Vehicle identified in C.2.1. This includes towing connections, brakes, and 24 volt wiring connections for brake lights and turn signals. The trailer shall be equipped with turn signals and brake lights.
- c. The trailer shall have a rectangular cubic cargo space unobstructed by wheel wells or other objects.
- d. Minimum unobstructed dimensions: Height: 1.52 meters, Length: 2.44 meters, and width of 1.52 meters
- e. Trailer will have a soft removable cover that, when secure in the traveling configuration, (i.e., allowing enclosure of cargo while traveling), will still allow the minimum dimensions cited in item d above.
- f. Mount a minimum 10 pound ABC type fire extinguisher for cargo protection.
- g. The cargo trailer shall be desert tan in color.
- h. If equipped, service brakes shall be compatible with the towing vehicle.
- i. Safety chains connected to safety brake levers shall be attached when the trailer is connected to the towing vehicle.
- j. The trailer shall have a retractable landing leg to support the front of the trailer when not connected to the towing vehicle.
- k. Tires, including the spare tire, shall be radial in type and compatible with the towing vehicle. All tires shall be the same size and load rating. One spare tire assembly shall be furnished and stored securely on the trailer. The trailer shall be equipped with a stowage box and tools for changing the wheel and tire assembly (jack, lug wrench, and strong arm bar). Box shall be designed to restrict entry of water and the tools shall be secured in place.
- l. The item shall be delivered with the routine maintenance spares listed in Attachment 6.

C.2.9 Large Cargo Trailer

This is to be a towed trailer that will carry cargo and equipment and be towed by the vehicle identified in Section C.2.2.

- a. The trailer shall be capable of off-road movement in a desert environment (weather and terrain conditions found in the nation of Iraq (-23 to +52 degrees C.)).
- b. The trailer shall be equipped with service brakes. The combined prime mover and trailer service brakes shall control and hold the vehicle combination on a dry hard surfaced 40 % grade when ascending and descending grade.
- c. The trailer shall be equipped with manually activated parking brakes. The parking brakes shall hold the trailer with full payload on dry, hard, smooth surfaced road on a 40 % grade while uncoupled from the towing vehicle when ascending and descending grade.
- d. The trailer brake system shall include emergency brakes with incorporates an emergency break away feature. This feature shall apply emergency brakes when separated from the prime mover. When activated the brakes shall be sufficient to hold the fully loaded trailer on a dry, hard, smooth surfaced road on a 40% grade when ascending and descending grade.
- e. The trailer shall be capable of traversing side slopes up to 20% with either side of the trailer facing upslope.
- f. The trailer shall be equipped with safety chains attached to be used when the trailer is connected to the prime mover.
- g. A minimum 10 LB ABC type fire extinguisher shall be mounted on the exterior of the trailer. Mounting shall be installed so that the extinguisher is easily accessible to the operator.
- h. The vehicle shall be capable of carrying a minimum of 2,000 kilos.
- i. The vehicle shall have a rectangular cubic cargo space unobstructed by wheel wells or other objects. Minimum unobstructed height, length and width shall be 1.52 meters, 2.73 meters, and 1.52 meters.
- j. The trailer shall be equipped with a soft removable cover that when secured in the traveling configuration (i.e. allowing enclosure of cargo while traveling), will still allow the minimum dimensions cited previously.
- k. The trailer shall be equipped with one spare wheel and tire assembly stored securely on the trailer. The spare wheel and tire assembly shall be the same size and load rating as the tires furnished on the trailer. Tools for changing the wheel and tire

Name of Offeror or Contractor:

assembly shall be stored on the trailer. All tires shall be radial construction.

- l. The trailer shall have suitable cargo tiedowns/ratchet points to safely secure pallets and other payloads during all modes of operation.
- m. The trailer shall be equipped with a landing gear that shall be adjustable within the necessary range for potential towing vehicles.
- n. The trailer shall be compatible with and be capable of being towed by the heavy wheeled vehicle and the recovery vehicle. This includes wiring connections for brake lights and turn signals as well as towing connections. The trailer shall be equipped with turn signals and brake lights.
- o. The trailer shall be painted Desert Tan in color.
- p. The item shall be delivered with the routine maintenance spares listed in Attachment 6.

C.2.10 Kitchen Trailer:

- a. This Kitchen Trailer shall carry and prepare perishable and non-perishable food and food preparation products for the Battalion. Trailer shall be towed by the Heavy Wheeled Vehicle, Section C.2.2).
- b. The maximum weight of the trailer when empty will not exceed 2700 kilos. The trailer will have a minimum payload capacity of 2270 kilos. Kitchen Trailer shall be able to support mess operations for 200 personnel per meal.
- c. Mobility. The kitchen trailer shall be capable of on-road and off-road movement in a desert environment (weather and terrain conditions found in the nation of Iraq).
- d. Electrical. The electrical system shall be a 24-volt DC system and shall be compatible with the prime mover, Section 2.2). The Trailers exterior lighting shall be compatible with prime mover headlights, taillights, turn signals, and towing connections.
- e. 5KW Generator. 5kW Diesel Generator shall be mounted on the trailer. The output of generator shall be 120 Volt and 240 Volt. Kitchen equipment shall be compatible to operate by 240 volt power output from 5KW Diesel Generator.
- f. Safety Chain. The trailer shall have safety chains attached to be used when the trailer is connected to the prime mover.
- g. Tires: The Trailer shall be equipped with all weather and all terrain radial tires. The shall be designed to operate on both off-road and on-road.
- h. Stowage Box. The trailer chassis shall be equipped with a stowage box to store full size spare wheel & tire assembly, sand jack and tools to change tire.
- i. Lunette. The chassis trailer shall be equipped with an adjustable lunette. The lunette shall be adjustable to compatible with prime mover.
- j. Leveling Jacks. The chassis trailer shall be equipped with four manually operated leveling jacks, located at the corners that shall raise and support the fully loaded trailer and shall adjust to permit placing the jack bases on the ground and leveling the trailer on an off-road site. The required force for operating the leveling jacks shall be not more than 16 kilos.
- k. Environmental. The trailer shall operate under extreme conditions of weather in ambient temperatures ranging from -23 C to +52 C.
- l. Service Brake. Kitchen Trailer shall be equipped with service brakes. The combined prime mover and trailer service brakes shall control and hold the vehicle combination on a dry hard surfaced 30% grade when headed up or down slope.
- m. Parking Brake. Manually activated parking brake shall hold the trailer with full payload on dry, hard, smooth surfaced road on a 30% grade while uncoupled from the towing vehicle and headed up or down grade.
- n. Emergency Brake. The trailer brake system shall include an emergency break away feature. This feature shall apply emergency brakes when the air supply from the prime mover ceases. When activated the brakes shall be sufficient to hold the fully loaded trailer on a dry, hard, smooth surfaced road on a 30% grade while headed up or down grade.
- o. Protective Finish. The color shall be desert Tan.
- p. Stoves and Sinks. Stoves shall be capable of operation on multi-fuels. Number of stoves should be sufficient to prepare food for 200 personnel per meal. Sink shall be easily connected to outside water supply line.
- q. Refrigerator. Refrigerator shall be capable of operating by external 240 volt power supply or by internal 5KW generator. It shall be capable of maintaining perishable food.
- r. Food Shelves. Trailer shall be equipped with storage space (shelves) to store perishable and non-perishable food, cooking equipment, and fuel cans.
- s. Fire Extinguishers. Trailer shall be equipped with minimum 10 LB ABC type Fire Extinguisher for cargo and 5 LB CO2 type Fire Extinguisher for kitchen protection.
- t. Exhaust and Ventilation. Trailer shall be equipped with proper Exhaust and Ventilation equipment.
- u. The item shall be delivered with the routine maintenance spares listed in Attachment 6.

C.2.11. 2.5 KW Diesel Generators: These portable generators can be carried in the back of a truck.

Scope: This general performance description provides the requirements for 2.5 KW Generator operated by diesel engine. The generator shall be portable and carried in the back of a truck.

- a. The generator shall be operated by diesel fuel.
- b. The generator shall be capable to operate under temperature ranges -23 C to 52 C.
- c. The generator connection shall provide 230 Volts at 50 Hz
- d. The color shall be desert Tan.
- e. The item shall be delivered with the routine maintenance spares listed in Attachment 6.

Name of Offeror or Contractor:

C.2.12 Color of Items in Section C.2: Unless otherwise stated, the exterior color of all C.2 items is to be the same shade of Desert Tan.

C.3 Weapons - New Only

C.3.1 9mm Combat Hand Gun: This will be the standard sidearm of the Battalion.

- a. Double action weapon
- b. Weapon similar to NATO 9mm and will fire 9 x 19mm (9mm Lugar) round.
- c. Only new weapons will be considered.
- d. Delivered with five large capacity magazines (minimum 13 to 15 rounds per magazine) and lanyard per weapon.
- e. Each delivered with one cleaning kit (includes CLP bottle and bore brush) and six months worth of expendable cleaning elements.
- f. Delivered with an appropriate one year stockage of routine maintenance spares listed in Attachment 6.
- g. Reserved.
- h. Delivered with 750 rounds of ammunition per the weapons quantity.

C.3.2 AK-47 (or AKM): This will be the standard individual weapon of the Battalion. Because of the immense number of government and commercial sources, delivered weapons must be from the same manufacturer to ensure commonality.

- a. Only new weapons will be considered.
- b. Weapon will use the 7.62mm x 39 Caliber cartridge.
- c. Weapon will have a folding stock to reduce its overall length. The stock may fold in any direction as long as it is compatible with other attached equipment such as night vision/scopes, etc.
- d. Delivered with 7 magazines (minimum 30 rounds each) per weapon.
- e. Delivered with one blank firing adapter for each
- f. Delivered with an appropriate one year stockage of routine maintenance spares listed in Attachment 6.
- g. Reserved.
- h. Delivered with 2,000 rounds of ammunition per the weapons quantity.
- i. Delivered with 2,000 rounds of blank/training ammunition per the weapons.
- j. Each delivered with one cleaning kit (includes CLP bottle and bore brush) and six months worth of expendable cleaning elements per the weapons quantity.

C.3.3 PKM/PKMS Heavy Machine Gun: This will be the standard crew-served, sustained fire machine gun of the Battalion.

- a. Because of the immense number of government and commercial sources, delivered weapons must be from the same manufacturer to ensure commonality.
- b. Only new weapons will be considered.
- c. Weapon will use the 7.62mm x 54 Caliber cartridge.
- d. Delivered with one blank firing adapter for each
- e. Weapon will have a foldable bipod.
- f. Delivered with an appropriate one year stockage of routine maintenance spares listed in Attachment 6.
- g. Reserved.
- h. Delivered with 4,000 rounds of ammunition per the weapons quantity. The ammunition will be delivered with non-disintegrating re-usable linked belts. The ammunition and the belt links can be delivered in separate packages. Sixteen (16) belts in lengths of 250 rounds will be delivered.
- i. Delivered with 2,000 rounds of training (blanks) ammunition per the weapons quantity.
- j. Each delivered with one cleaning kit (includes CLP bottle and bore brush) and six months worth of expendable cleaning elements per the weapons quantity.
- k. Each weapon shall be delivered with a tripod and mount.
- l. Belt fed.

C.3.4 RPK Light Machine Gun: This will be the standard squad automatic weapon of the Battalion.

- a. Because of the immense number of government and commercial sources, delivered weapons must be from the same manufacturer to ensure commonality.
- b. Only new weapons will be considered.
- c. Weapon will use the 7.62mm x 39 Caliber cartridge.
- d. Delivered with one blank firing adapter for each
- e. Weapon will have a detachable foldable bipod.
- f. Delivered with an appropriate one year stockage of routine maintenance spares listed in Attachment 6.
- g. Delivered with 7 magazines (minimum 40 rounds each) per weapon.
- h. Delivered with 4,000 rounds of ammunition per the weapons quantity.
- i. Delivered with 2,000 rounds of training (blanks) ammunition per the weapons quantity.
- j. Each delivered with one cleaning kit (includes CLP bottle and bore brush) and six months worth of expendable cleaning elements per the weapons quantity.

C.3.5 Armorer Kits: Six each of the armorer kits listed below will be supplied per battalion set of equipment.

Name of Offeror or Contractor:

a. The basic armor's kit will consist (as a minimum) of the components listed in Attachment 5.

b. The supplemental armor's kit will consist of all the special tools required to maintain the weapons offered by an armorer at the unit level. This list of tools may vary by offeror since some latitude is allowed as to weapons offered.

C.4 Communications Equipment

All communications equipment must be certified to be fully interoperable with existing IAF communications equipment. Government verification will take place after contract award. The Government will not accept any communications equipment until interoperability with current IAF equipment has been verified. The existing IAF communications equipment is listed in the subparagraphs of this section of the SOW.

Current IAF radios incorporate the Transcript 460 chip as Level 3 encryption.

Note that System Integration requirements shown in C.1.5 apply to radios mounted in the vehicles specified in this solicitation.

C.4.1 Short Range Radio:

Existing IAF Radio: Motorola GP680 (403-470MHz) Portable, 16 Channels MDH25RDH9CK6_E. You do not have to supply this radio, but the radio you supply must be compatible with it in both standard and encrypted mode. All communications equipment must be certified to be fully interoperable with existing IAF communications equipment. Current IAF radios incorporate the Transcript 460 chip as Level 3 encryption. Transcript 460 chip shall be installed to meet the encryption requirement.

This will be the primary means of short range radio communication within the battalion.

Environmental Requirements:

Vibration - MIL-STD-810C/D/E

Shock - MIL-STD-810C/D/E

Rain - MIL-STD-810C/D/E

Dust - MIL-STD-810C/D/E

Operating temperature minus 10 degrees C to plus 60 degrees C

Operational Requirements:

Narrow band operating in the 410 - 430 MHz bandwidth

Multi-channel radio with key pad

Transmission range between handheld radios between 50m and 10km using standard antenna-set. Antenna height not more than 2m when extended while attached to the radio

Extend range of voice communications from 10km to 20km with use of antenna relay-set. Antenna height not more than 5m when deployed

Transcript 460 chip shall be installed to meet the encryption requirement

Power Source:

Powered by disposable or rechargeable batteries that sustain continuous operation for a period not less than 8 hours

Powered from 24v accessory power receptacles in equipment cited in sections C.2.1, C.2.2, C.2.4, C.2.6, and C.2.7)

An adapter kit is not required

Radio programming service is not required

Transportability:

Man-portable or handheld with weight less than 15kg.

Able to be powered from vehicle-mounted equipment receptacle and operate while mobile (adaptable to accessory power receptacles in equipment cited in sections C.2.1, C.2.2, C.2.4, C.2.6 and C.2.7)

Support Equipment:

Additional rechargeable batteries

Battery chargers for rechargeable batteries

Spare parts kits (additional antennas)

Dust covers

Name of Offeror or Contractor:

Training (see C.8):

Provide operational and routine maintenance (replacing batteries) training to battalion personnel
Demonstrate proper care and handling procedures

C.4.2 Long Range Radio:

Existing IAF Radio: Motorola GM660 Mobile Radio (403-470 MHz), 1-25W Output Power, 16 channel MDM25RHF9CK5_E. You do not have to supply this radio, but the radio you supply must be compatible with it in both standard and encrypted mode. All communications equipment must be certified to be fully interoperable with existing IAF communications equipment. Current IAF radios incorporate the Transcript 460 chip as Level 3 encryption. Transcript 460 chip shall be installed to meet the encryption requirement.

This will be the primary means of long range radio communication within the battalion.

Environmental Requirements:

Vibration - MIL-STD-810C/D/E

Shock - MIL-STD-810C/D/E

Rain - MIL-STD-810C/D/E

Dust - MIL-STD-810C/D/E

Operating temperature minus 10 degrees C to plus 60 degrees C

Operational Requirements:

Narrow band operating in the 410 - 430 MHz bandwidth

Multi-channel radio with key pad

Transmission range between 50m and 20km using standard antenna-set. Antenna height not more than 2m when extended while attached to the radio

Extend range of voice communications from 20km to 30km with use of antenna relay-set. Antenna height not more than 5m when deployed

Transcript 460 chip shall be installed to meet the encryption requirement

Power Source:

Powered from 24v accessory power receptacles in equipment cited in sections C.2.1, C.2.2, C.2.4, C.2.6, and C.2.7)

Powered directly from AC power supply

Transportability: No Requirement

Support Equipment:

Vehicle Antenna

Spare parts kits

Vehicle mounting kits

AC power supply

Training (see C.8):

Provide operational and routine maintenance (replacing batteries) training to battalion personnel
Demonstrate proper care and handling procedures

C.4.3. Radio Repeater:

Existing IAF Radio: 2ea Motorola GM360 Mobile Radio (403-470 MHz), 1-25W Output Power, 255 channel - MDM25RHF9AN5. You do not have to supply this radio, but the radio you supply must be compatible with it in both standard and encrypted mode. All communications equipment must be certified to be fully interoperable with existing IAF communications equipment. Current IAF radios incorporate the Transcript 460 chip as Level 3 encryption.

This radio repeater will allow retransmission of radio broadcasts in both standard and encrypted mode by equipment identified in sections C.4.1 and C.4.2 of this SOW. Repeaters will be supplied in both fixed and mobile configurations.

Environmental Requirements:

Vibration - MIL-STD-810C/D/E

Shock - MIL-STD-810C/D/E

Rain - MIL-STD-810C/D/E

Name of Offeror or Contractor:

Dust - MIL-STD-810C/D/E

Operating temperature minus 10 degrees C to plus 60 degrees C

Operational Requirements:

Multi-channel Narrow band operating in the 410 - 430 MHz bandwidth

Compatible with radios cited in C.4.1 and C.4.2

Retransmission of voice communications from 15km to 30km

Power Source:

Powered from vehicle internal electrical system (adaptable to 24v accessory power receptacles in equipment cited in sections C.2.1, C.2.2, C.2.4, C.2.6 and C.2.7) and must also be capable of being powered by an AC generator.

Transportability:

Able to be installed in vehicle-mounted equipment receptacle and operate while mobile (adaptable to accessory power receptacles in equipment cited in sections C.2.1, C.2.2, C.2.4, C.2.6 and C.2.7) and able to be operated as a fixed repeater.

Support Equipment:

Mobile Mounting Kit

Spare parts kit

220V AC power supply

Training (see C.8):

Provide operational and routine maintenance training to select battalion personnel

Demonstrate proper care and handling procedures

C.4.4 Base Station:

Existing IAF Radio: Motorola GM660 Mobile Radio (403-470 MHz), 1-25W Output Power, 16 channels - MDM25RHF9CK5_E. You do not have to supply this radio, but the radio you supply must be compatible with it in both standard and encrypted mode. All communications equipment must be certified to be fully interoperable with existing IAF communications equipment. Current IAF radios incorporate the Transcript 460 chip as Level 3 encryption. Transcript 460 chip shall be installed to meet the encryption requirement.

Will allow transmission of radio broadcasts from the installation to deployed units using equipment identified in sections C.4.1, C.4.2, and C.4.3 of this SOW. Base Stations will be supplied in both fixed and mobile configurations.

Environmental Requirements:

Vibration - MIL-STD-810C/D/E

Shock - MIL-STD-810C/D/E

Rain - MIL-STD-810C/D/E

Dust - MIL-STD-810C/D/E

Operating temperature minus 10 degrees C to plus 60 degrees C

Operational Requirements:

Multi-channel Narrow band operating in the 410 - 430 MHz bandwidth

Compatible with radios cited in C.4.1 and C.4.2

Transmission of voice communications to 30km.

Transcript 460 chip shall be installed to meet the encryption requirement

Power Source:

Powered directly from AC power supply

An Uninterrupted Power Supply (UPS) is required for each base station. UPS shall supply back up power to operate the radio for a minimum of 30 minutes.

Support Equipment:

220V AC power supply

Antenna

Name of Offeror or Contractor:

Mounting kit
Spare parts kit

Training (see C.8):

Provide operational and routine maintenance training to select battalion personnel
Demonstrate proper care and handling procedures

C.4.5 Fixed HF Radio

Existing IAF Radio: Barrett 950 HF Base Station Radio, 125W Output Power. You do not have to supply this radio, but the radio you supply must be compatible with it in both standard and encrypted mode. All communications equipment must be certified to be fully interoperable with existing IAF communications equipment. Current IAF radios incorporate the Transcript 460 chip as Level 3 encryption. Transcript 460 chip shall be installed to meet the encryption requirement.

This will provide a reach-back capability to the installation when units are operating beyond 30km.

Environmental Requirements:

Vibration - MIL-STD-810C/D/E
Shock - MIL-STD-810C/D/E
Rain - MIL-STD-810C/D/E
Dust - MIL-STD-810C/D/E
Operating temperature minus 10 degrees C to plus 60 degrees C

Operational Requirements:

HF SSB (Single-side band)
Operates in the 1.6 - 30 MHz range
100 simplex or half-duplex channels
125 W output power
DSP (Digital Signal Processing)
Channel scan capability
Priority and guard channels
Selective calling option
Voice activated digital squelch
Compatible with HF system cited in C.4.6
Transcript 460 chip shall be installed to meet the encryption requirement

Power Source:

Powered directly from AC power supply

Support Equipment:

Radio Service Software
ALE software program via computer
125W broadband dipole antenna
60m coax cable kit
Spare parts kit
220V AC power supply

Training (see C.8):

Provide operational and routine maintenance training to select battalion personnel
Demonstrate proper care and handling procedures

C.4.6 Mobile HF Radio

Existing IAF Radio: Barrett 950 HF Mobile Radio, 125W Output Power. You do not have to supply this radio, but the radio you supply must be compatible with it in both standard and encrypted mode. All communications equipment must be certified to be fully interoperable with existing IAF communications equipment. Current IAF radios incorporate the Transcript 460 chip as Level 3 encryption. Transcript 460 chip shall be installed to meet the encryption requirement.

This will provide a reach-back capability to the installation when units are operating beyond 30km.

Name of Offeror or Contractor:

Environmental Requirements:

Vibration - MIL-STD-810C/D/E
Shock - MIL-STD-810C/D/E
Rain - MIL-STD-810C/D/E
Dust - MIL-STD-810C/D/E
Operating temperature minus 10 degrees C to plus 60 degrees C

Operational Requirements:

HF SSB (Single-side band)
Operates in the 1.6 - 30 MHz range
100 simplex or half-duplex channels
125 W output power
DSP (Digital Signal Processing)
Channel scan capability
Priority and guard channels
Selective calling option
Voice activated digital squelch
Compatible with fixed HF station cited in C.4.5
Transcrypt 460 chip shall be installed to meet the encryption requirement

Power Source:

Powered by a portable battery pack
Powered from vehicle internal electrical system (adaptable to 24v accessory power receptacles in equipment cited in sections C.2.1, C.2.2, C.2.4, C.2.6, and C.2.7)

Transportability:

Able to be installed in vehicle-mounted equipment receptacle and operate while mobile (adaptable to accessory power receptacles in equipment cited in sections C.2.1, C.2.2, C.2.4, C.2.6, and C.2.7)
Man-portable

Support Equipment:

Radio Service Software
ALE software program via computer
Antenna tuner
9 heavy duty mobile antenna
Mobile mounting kit
Spare parts kit

Training (see C.8):

Provide operational and routine maintenance training to select battalion personnel
Demonstrate proper care and handling procedures

C.5 Night Vision - New Only

C.5.1 Individual Night Vision Device: This individual system (similar to U.S. Army AN/PVS-7 Night Vision Goggles, Generation II or better) will allow individual soldiers to have night vision capability.

- a. Allow operation in low light conditions considered to be the equivalent of clear starlight conditions.
- b. Can be mounted to an individuals head with adjustable straps.
- c. Shall have a Helmet Mounting Kit
- d. Allow individuals to drive vehicles and conduct operations in low light condition with all items and equipment identified in this Statement of Work.
- e. Allow individuals to engage targets in low light conditions with weapons cited in C.3.
- f. Be battery operated with an individual battery (set of batteries) life of eight hours of continuous operations without degradation.
- g. Be delivered with either 25 sets of primary batteries or 6 sets of rechargeable batteries and 1 recharger.

C.5.2 Weapon Mounted Night Vision Kit: This Kit system (similar to AN/PEQ-2A) will allow operators of the weapons identified in section C.3 (except 9mm Hand Gun) to have night vision capability when used with C.5.1 Individual Night Vision Device.

- a. Allow operation in low light conditions considered to be the equivalent of clear starlight conditions.

Name of Offeror or Contractor:

- b. Be a laser pointer similar to AN/PAQ-4C that allows target pointing to 750M.
- c. Be mountable on the weapons cited in Section C.3 (except 9mm Hand Gun).
- d. Allow individuals to zero, qualify with and engage targets with the weapons cited in Section C.3. (except 9mm Hand Gun) in low light conditions.
- e. Be battery operated with individual battery (set of batteries) life of 14 hours of intermittent use (normal operations).
- f. Be delivered with either 25 sets of primary batteries or 6 sets of rechargeable batteries and 1 recharger.

C.6 Fire Control - New Only

C.6.1 Binoculars: The Binoculars will be 7x50 with individual eyepiece focus, M-22 style mil reticle, and carrying case. The binoculars will have a minimum field of view of 120 meters at 1000 meters. The binoculars shall be equipped with a carrying strap between 97 and 112 cm in length. The binoculars shall be provided with eyecups which shall be foldable. The binoculars shall also be provided with covers for the objective and ocular lenses. The binoculars shall withstand temperatures of -25C and 70C (-3F and +158F) without damage or internal fogging. The binocular shall remain water tight while withstanding immersion in one meter deep water for sixty minutes. The binoculars shall be predominately one color: black, tan or olive drab.

C.6.2 Compass: Ruggedized, waterproof, commercially available magnetic compass capable of azimuth determination, and land navigation assistance. The compass will be tan, black or green in color.

C.6.3 GPS: Ruggedized, waterproof commercially available Global Positioning System. The unit will be WAAS enabled, have 12 parallel channels, be operable with one hand, and use commercially available batteries. Unit color will be tan, black or green.

C.7 Individual Soldier Equipment - "like new is acceptable"

C.7.1 Sleeping Bag: Rectangular shaped bag with minimum size 34 inches x 82 inches. Zipper that will allow unzipped bag to lay flat. Dual bag construction with sewn in weather tube to keep cold from coming thru zipper. Insulation overlapping shingle two layer must be synthetic material with very low water absorption qualities. Washable by machine and by hand. Color: desert tan or desert camouflage. A stuff sack must be provided that sleeping bag will fit in. Comfort rating to -3C.
-Edge zip (not mummy bag)

C.7.2 Entrenching Tool With Cover: The tool shall be approximately 23 inches long, weight approximately 40 oz. and have a closed length of approximately 9.5 inches. The color shall be tan or olive drab.

C.7.3 Load Bearing Vest: Load bearing vest shall have the ability to attach and remove various equipment to include but not be limited to ammunition, grenade, canteens, and or other mission essential load carrying pockets. The vests shall be compatible with pistol belt C.7.13. The vest shall be adjustable to allow proper fitting.

- (2) Magazine pouches (six 30 round AK47 magazines)
- (1) Compass pouch
- (4) Multi- purpose pouches
- Fabric: durable nylon
- Pouches will be snap-on as well as velcro
- Tan, olive drab or desert camouflage in color
- Will accommodate a pistol belt

C.7.4 Poncho: The poncho is a rectangular shaped garment with an attached hood having a draw string cord around the face opening. The poncho and hood will be capable of use over the users helmet, body armor and all equipment. Side hems will be fitted with rustproof snap fasteners so that the front and back can be joined together to form a closed rain garment. The poncho will have grommets at corners and center of each hem so that a temporary shelter may be tied down or constructed. The poncho will be made from waterproof nylon fabric coated on one side only. All seams, except hem seams, shall be sealed to prevent water leakage. The poncho will weigh approximately 0.7 kg. The poncho will be tan, olive drab or camouflage color.

C.7.5 Poncho Liner: A quilted liner made from synthetic material with very low water absorption qualities that matches the dimensions of the poncho. The poncho liner will be capable of use as a field blanket to keep the user warm. Machine or hand washable.
-Green (Olive drab), camouflage, or khaki in color

C.7.6 Dust Goggles: Goggles must provide wind and dust protection for the eyes in both clear and sunglass configurations. Goggles must be provided with 2 pair each of interchangeable clear and sunglass lenses, and it is preferable that the sunglass lenses be neutral grey. Goggles should accommodate prescription eyeglass users while still providing wind and dust protection and have a ventilation system to minimize conditions that create fog inside of the goggles. Goggles should be comfortable and capable of fitting a wide range of people, be compatible with military helmets and equipment, provide for good field of view and be capable of being used while firing weapons. Any adjustments should be easy to make. Goggles should weigh approximately 5 oz. Components of the goggles, with exception of lenses, shall be subdued in color such as black, tan or green.

C.7.7 Body Armor: Individual armor that will protect the wearers torso (front, back and sides) and neck. The vest shall have the

Name of Offeror or Contractor:

ability to add and remove various pouches, pockets and individual equipment to reduce load and configure as necessary depending on the mission. The vest shall be capable of carrying ballistic plates front and back. The ballistic plates shall be rectangular shape approximately 10 inches by 12 inches. NIJ Level III protection is required with NIJ Level IIIA protection required for the top of the shoulders and neck. Body armor will meet NIJ standard 0101.04. Body armor will be supplied 20% small, 20% medium, and 60% large.

C.7.8 Helmet with Cover: The helmet shall be a rigid, one-piece ballistic protective item. The helmet shall cover the front of the head, the temple region, the ear, and occipital region. The helmet shall have a suspension system with an ability to adjust both the circumference of the head as well as a height adjustment for the length of the head. The required protection shall be equal to or better than NIJ Type II in accordance with NIJ standard 0106.01. Helmet cover shall be cloth and fits snugly over helmet. Both items shall be tan or olive drab in color. Helmets will be supplied 20% small, 20% medium, and 60% large.

C.7.9 Water Can: A plastic water can with pouring spout that will hold 20 liters of liquid. The water can may be vented through an air hole opposite the pouring spout or may be vented by means of a tube at the center of the pouring spout. The caps may be screw on or clamp on. The water can will be tan, black, or green in color.

C.7.10 Fuel Can (Jerry Can): A metal can with pouring spout that will hold 20 liters of diesel fuel or gasoline. The fuel can may be vented through an air hole opposite the pouring spout or may be vented by means of a tube at the center of the pouring spout. The caps may be screw on or clamp on. The fuel can will be tan, black or green in color.

C.7.11 Medium Tent: This tent will allow 8-12 individuals to sleep or perform unit operations. It will be rectangular in shape and constructed of heavy duty nylon. It will be waterproof. Minimum dimensions shall be 6m x 12m x 1.8m at wall or edge of tent. Poles, if required, will be metal. It will have rollable sides to allow ventilation and netted sides to prevent entry of flying insects when sides are rolled up. The tent shall be desert tan in color.

C.7.12 Rucksack: The rucksack shall be constructed of durable lightweight weather resistant material with the following features.

- 60-80 cubic liter capacity.
- Detachable frame compatible with rucksack
- Rucksack shall consist of a main pouch with closure and outside pockets.
- Shall have hangers for carrying individual equipment and attaching pockets.
- Removable pockets for carrying various military equipment.
- Tan, olive drab, or desert camouflage in color

C.7.13 Pistol Belt: Adjustable to accommodate waist sizes of 24 inches minimum to 56 inches maximum, with quick release mechanism. User will be able to attach various items to include Canteens, weapon or ammunition pouches as necessary. Color will be tan or green (olive drab).

- Nylon web
- Attachable to the load bearing vest
- Plastic snap and grommets

C.7.14 Canteen:

C.7.15 Canteen Cup:

C.7.16 Canteen Cover:

The canteen system shall consist of a canteen, canteen cup and canteen cover. The canteen will have a screw on cap with attaching strap and will hold at least 0.95 liter (1 qt.) The canteen cup will be constructed of metal with a fold up handle. The cover will be attachable to Load Bearing equipment, pistol belt, and body armor. The canteen and canteen cover will be tan, olive drab or desert camouflage in color.

C.8 Training Support for Battalion Sets (C.2 through C.7)

C.8.1 Operator Training Support for items in section C.2 through C.7 (Separately Priced): The contractor shall conduct, at each of the four locations established for delivery (see FOB Destination locations in Section F), one iteration of operator level training per battalion set of equipment as listed in C.2 through C.7, within two weeks of the initial delivery of at least one representative item for each requirement C.2 through C.7 of a complete battalion set. This training shall be conducted in Arabic to approximately 100 Arabic speaking students to train the trainer for approximately 8 hours. An English speaking instructor may use an Arabic translator. The training course shall provide operator level maintenance and training courses for all items. Indoor training and bay space will be provided by the Government. The training course shall require the following:

- a. An understanding of the item capabilities, limitations and interface and operations.
- b. The basis for the item maintenance support for the Operation and Preventative Maintenance checks.
- c. Training material will be stand alone for each specific item.
- d. Warranty Understanding
- e. Hard copy training material

CONTINUATION SHEET	Reference No. of Document Being Continued PIIN/SIIN W56HZV-04-R-0692 MOD/AMD 0003	Page 19 of 26
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Name of Offeror or Contractor:

f. Tools necessary to support the training.

*** END OF NARRATIVE C 001 ***

Name of Offeror or Contractor:

SECTION L - INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFERORS

L.1 Proposal Instructions, Format and Content.

L.1.1.1 Proposal Instructions. The proposal should be accompanied by a cover letter (letter of transmittal) prepared on company letterhead to identify all enclosures being transmitted. Extreme care and attention should be given to ensure that all required items are included in the proposal. The Government intends to evaluate proposals and award a contract without discussions with Offerors (except clarifications as described in FAR 15.306(a)). Therefore the Offerors initial proposal should contain the Offerors best terms from a technical, project management/delivery, and price standpoint. However the Government reserves the right to conduct discussions if the Contracting Officer later determines them to be necessary.

L.1.1.2 Proposal Format. The proposal shall be submitted in the formats and quantities set forth in this section. Section M sets forth evaluation criteria and their relative order of importance to the Government. All proposals shall be in English (American Standard) and shall be in US dollars. Each section of the proposal shall be separable to facilitate review by the Government. Offers shall be submitted in hard copy and CDs in the following types and quantities:

Volume Number	Title	Paper Copies	Electronic Copies (CDs only)
I	Technical	6	3
II	Project Management/Delivery	4	3
III	Price Area	3	4
IV	Past Performance/Small Business Participation Volume	3	3

L.1.2 Submission Due Dates.

L.1.2.1 Past Performance sub-volume. In order to facilitate the evaluation process, Offerors are strongly encouraged to submit the Past Performance information requested in this solicitation on 15 April 2004 to the address shown in L.1.2.2 below. The balance of Volume IV, Small Business Participation, is due with the proposal, as specified below.

L.1.2.2 Financial Capability Information. The Offeror must provide the following information in both printed and electronic form for each of the Offerors three most recent fiscal years: (1) Balance Sheet, (2) Income Statement and (3) Statement of Cash Flows. These statements should be certified by your independent Certified Public Accountant (CPA) or equivalent. You must also provide the name, title, address, telephone number and e-mail address for a financial Point of Contact (POC) within your company. This POC may be contacted by Defense Contract Audit Agency (DCAA) if a Financial Capability assessment is performed on your company and a site visit by DCAA may be required. You must be prepared to support this analysis. If you know the DCAA office (name of the Supervisory Auditor, telephone number and e-mail) with cognizance of your company please provide that information. It is strongly suggested that this information to be provided Ms. Denise Mika by April 15, 2004.

L.1.2.3 Proposals, including Past Performance and Financial Capability information, if not submitted earlier as requested above, shall be submitted due to the address below at the time and date specified in Block 8 of Standard Form 1449 (Page 1) of this solicitation:

U.S. Army Tank-automotive and Armaments Command
ATTN: AMSTA-AQ-AMAD
Bid Lobby, Bldg. 231
6501 E. Eleven Mile Road
Warren, MI 49397-5000

L.1.3 SPECIAL INSTRUCTIONS FOR PROPOSALS HAND CARRIED BY FOREIGN NATIONALS: Current security regulations require all packages and mail to go through a security screening process upon receipt at the installation. Offerors intending to use foreign nationals to hand carry its proposal are required to schedule a time for submission of its proposal with Ms. Denise Mika (Phone 586-574-5763) in order to be escorted on post to have the packages go through security for proper screening. Delays due to failure to schedule such deliveries in advance does not relieve the Offeror from meeting the required proposal submission date and time.

L.1.4 Lateness. The lateness rules for submitted proposals are outlined in FAR 52.212-1 "Instructions to Offerors-Commercial Items," incorporated in to this solicitation.

L.1.5 Electronic Copies.

Name of Offeror or Contractor:

L.1.5.1 Offerors must submit electronic copies (Compact Disks), and any supplemental information (such as spreadsheets, backup data, and technical information) using the following:

(i) Files in either Microsoft Office 2000 or Office XP: Word, Excel, or PowerPoint. Spreadsheets must be sent in a file format that includes all formulae, macro and format information. Print image is not acceptable.

(ii) Files in Adobe PDF (Portable Document Format). Scanners should be set to 200 dots per inch.

(iii) Files in HTML (Hypertext Markup Language). HTML documents must not contain active links to live Internet sites or pages. All linked information must be contained within the electronic offer and be accessible offline.

(iv) Each proposal volume shall be submitted on a separate CD.

Note: The above formats may be submitted in compressed form using self-extracting files.

L.1.5.2 Acceptable Media. The Offeror must submit the electronic copies of the offer via 700 MEGABYTE CD ROM. Offerors shall label any and all submitted disks with the solicitation number and closing date, and the Offeror's name and address and contact phone number. Envelopes containing disks must be labeled in accordance with L.2.5.

L.1.5.3 Security Note. If the Offeror chooses to password protect access to the offer, the Offeror must provide the Password to TACOM before the closing date. Contact Denise Mika (Phone 586-574-5763) to arrange a means of providing it. Passwords used only for the purpose of write protecting files need not be provided.

L.1.5.4 Electronic files shall include:

a. The SF1449 filled out. SIGNATURE: The SF1499 must be signed and included electronically in your disk or CD. Clearly label the disc/CD ROM as described in paragraph L.1.5.2 above, adding the name and title of the signer authorizing the Offeror's company, company name, and then sign the LABEL itself.

b. All applicable fill-in provisions from Sections K, Attachment 1, and Attachment 3 of this solicitation. The Offeror may find MS Word versions of Section K provisions requiring the Offeror fill-in on the TACOM Business Opportunities webpage (<http://contracting.tacom.army.mil/mastersol/sectionk.htm>). The Offeror can fill them in and attach them to the offer. See the solicitation for which provisions are required.

c. A statement of agreement to all the terms, conditions and provisions of this solicitation.

d. Any other information required by the solicitation.

e. A Subcontracting Plan in accordance with FAR 52.219-9 "Small Business Subcontracting Plan", if required.

L.1.5.5 Please see FAR 15.207(c) for a description of the steps the Government shall take with regard to unreadable offers:

(c) If any portion of a proposal received by the contracting officer electronically or by facsimile is unreadable, the contracting officer immediately shall notify the Offeror and permit the Offeror to resubmit the unreadable portion of the proposal. The method and time for resubmission shall be prescribed by the contracting officer after consultation with the Offeror, and documented in the file. The resubmission shall be considered as if it were received at the date and time of the original unreadable submission for the purpose of determining timeliness under 15.208 <<http://farsite.hill.af.mil/reghtml/regs/far2afmcfars/fardfars/far/15.htm>>(a), provided the Offeror complies with the time and format requirements for resubmission prescribed by the contracting officer.

L.1.5.6 Offerors shall make every effort to ensure that their offer is virus-free. Offers (or portions thereof) submitted which reflect the presence of a virus, or which are otherwise rendered unreadable by damage in either physical or electronic transit, shall be treated as "unreadable" per paragraph L.1.5.5 above.

L.1.6 Paper Copies. Paper copies of each separate volume shall be provided, clearly labeled and in a separate binder. The paper copy shall be identical to the electronic proposal submission. Each page shall identify the appropriate volume/folder and be numbered. With the exception of drawings, paper pages shall be on standard 8.5" x 11" paper except for single foldout pages (up to 17" x 11" allowed). The standard A4 European format in standard 2-ring binders is also acceptable. An index shall be provided with each section of each volume with reference to page numbers. Separate drawings may be submitted in electronic format. Specific formats and media of supporting data should be checked with the Government prior to submission to insure compatibility. IN THE EVENT OF A DIFFERENCE, THE PAPER VERSION SHALL TAKE PRECEDENCE OVER THE ELECTRONIC VERSION OF THE OFFER.

L.1.7 Proposals shall conform to the requirements of this solicitation; no alternate proposals will be considered in this procurement.

Name of Offeror or Contractor:L.2 Proposal Content.L.2.1 Volume I - Technical Area Volume.

Offerors shall fully substantiate their ability to provide the supplies and services in accordance with contract requirements. This information shall consist of the following:

1. The Offeror shall fill in the questionnaires found in Attachment 1, Technical Information Questionnaires, for each item of equipment contained in Section C. Failure to provide any of the information required by Attachment 1 may render your proposal ineligible for award. If any modification is needed to an item to meet the requirements of Section C, the Offeror shall explain in detail the nature of such modification and its assessment of the risk involved in implementing the modification.

2. The Offeror shall describe its approach to systems integration of the technical requirements, assuring compatibility and interface of equipment identified in Section C.

3. A description of the general approach to providing the training required by paragraph C.8 for equipment in Section C. At a minimum, explain how you will determine the level and duration of the training required for each hardware item, if any.

4. For each item of equipment contained in Section C, the offeror shall submit a list of spares required for routine maintenance during the first year of usage. If no spares are anticipated to be needed for any particular item, the offeror shall so state. This list will be incorporated into any resultant contract as Attachment 6.

5. All communications equipment contained in Section C.4, must be self-certified to be fully interoperable with existing IAF communications equipment. These certifications shall be part of the Offerors proposal. The certification shall contain the following information: name, title, and contact information of the company certifying official, model and description of each item(s) being offered/certified and date of certification. If this certification(s) is not received, it may render your proposal ineligible for award.

6. Tools offered in the supplemental armorer kit must be listed along with the components of a. above in the questionnaire from Attachment 1. This list will become part of the contract at time of award.

L.2.2 Volume II - Project Management/Delivery Area Volume

Attachment 4a specifies the Government desired delivery schedule for the 15 battalion sets and six brigade sets. The Offeror shall complete Attachment 4b by filling in its proposed delivery schedule. Prior to opening the attached spreadsheet set the Macro security level to "Medium". If you do not do this, the user defined function included in the spreadsheet will not execute. The sequence is Tools, Macro, Security, Medium. After use of the Attachment, reset your Macro Security level to its prior setting. This proposed schedule will serve as the basis of the Governments evaluation of the contractors proposal, and if the proposal is selected for award, will be incorporated as the required delivery schedule in the contract. The Offeror shall provide a Time Phased Critical Path for each of the items of equipment as described in Section C and in accordance with Attachment 4b, Proposed Delivery Schedule, and for the Program Management Activities, and Training. Provide a Time Phased Critical Path of key events necessary to ensure the timely delivery of equipment and training conforming to the technical and proposed delivery requirements. The Time Phased Critical Path, to include specific milestone dates for all critical program events identified, should include but is not limited to:

1. Initial Program Management Start up Activities.
2. Issuance of orders for each of the items of equipment
3. Activities related to planning for training
4. Transportation, receipt, and safeguarding of equipment until US Government acceptance
5. Integration and assembly of battalion and brigade sets
6. Operator Training
7. Sustainment/warranty operations

The Offeror shall include with the Time Phase Critical Path an accompanying narrative that provides the rationale and logic for the schedule. This narrative will consist of:

1. Describe your plan and a specific Time Phase Critical Path for obtaining all required approvals necessary to deliver the required hardware to Iraq. This plan should specifically address export controls, licenses, and munition controls, where applicable, for the equipment required in Section C.

2. Explain the basis of the sequence of events and the relationship between the events.

3. Identify sources that will provide the equipment and services and the nature and status of agreements and commitments that currently exist with those sources.

4. Provide the basis for your ability to meet the delivery rates for individual hardware and service items.

Name of Offeror or Contractor:

5. Describe the methods of transportation to be employed, how you will manage delivery of a large diverse group of products/services, integration, assembly and safeguarding until US Government acceptance, and how US Government and Iraqi customer interface will be achieved.

L.2.3 Volume III - Price Area Volume. The Price volume shall consist of:

L.2.3.1 Attachment 3. Attachment 3 contains an Excel Worksheet that the Offeror shall fill in for each item and each ordering period for all of the items in this solicitation. Each item price shall include the price for routine maintenance spares listed in Attachment 6 for that item. Prices shall be firm fixed price for each ordering period. The Offeror's name, solicitation number, and date of the submission shall appear on each page of each table. All prices shall be stated in U.S. dollars only. All prices shall include all costs to perform the contract including any applicable taxes, duties, fees, security until US Government acceptance, transportation costs, cost of security, etc. Failure to provide any of the information required by Attachment 3 may render your proposal ineligible for award. No currency adjustment provisions will be contained in any resulting contract.

L.2.3.2 The Price Volume shall contain any exceptions to terms and conditions. However, exceptions to the terms and conditions of this solicitation may make the proposal unacceptable and ineligible for award.

L.2.3.3 Financial Capability Information. The Offeror must provide the following information in both printed and electronic form for each of the Offerors three most recent fiscal years: (1) Balance Sheet, (2) Income Statement and (3) Statement of Cash Flows. These statements should be certified by your independent CPA or equivalent. You must also provide the name, title, address, telephone number and e-mail address for a financial POC within your company. This POC may be contacted by DCAA if a Financial Capability assessment is performed on your company and a site visit by DCAA may be required. You must be prepared to support this analysis. If you know the DCAA office (name of the Supervisory Auditor, telephone number and e-mail) with cognizance of your company please provide that information. Offerors are strongly encouraged to submit this information to Denise Mika by 15 APR 2004. In the event that a company cannot provide all of the required Financial Capability Information, then 1) state why the required information can not be provided, 2) provide as much of the required information as possible, 3) provide the Financial Capability Information for significant subcontractors as defined in L.2.4.1.1, 4) provide evidence of access to access to financial resources, for example, letters of credit or approved lines of credit, 5) provide copies of any loan covenants of agreements your company has, 6) provide the status of any outstanding lines of credit, and 7) provide copies of any debt/bond payment schedules. The certification can be in another language, but must have an English translation accompanying it.

L.2.3.4 Certifications of Section K. Certifications submitted in accordance with Section K of the solicitation shall be submitted in the Price Volume.

L.2.3.5 Corporate, Partnership or Joint Venture Certificates

If the proposal is submitted by a corporation, The Corporate Certificate below must be submitted. If the proposal is submitted by a partnership, the Authority to Bind Partnership below must be completed and a copy of the partnership agreement included with the proposal. If the proposal is submitted by a Joint Venture, the Corporate Certificate below must be completed by each member of the Joint Venture and a copy of the Joint Venture Agreement included with the proposal.

CORPORATE CERTIFICATE

I, _____, certify that I am the _____(Title) of the Corporation named as offer/contractor herein, that _____, who signed this proposal/contract on behalf of the Offeror/Contractor was then _____ of said corporation; that said proposal/contract was duly signed for and on behalf of said corporation by authority of its governing body and within the scope of its governing body and within the scope of its corporate powers. _____(CORPORATE SEAL) (signature) _____

AUTHORITY TO BIND PARTNERSHIP

This is to certify that the names and signatures of all partners are listed below and that the person signing the proposal had authority to actually bind the partnership pursuant to its partnership agreement. Each of the partners individually has full authority to enter into and execute contractual instruments on behalf of said partnership, with the United States of America except as follows: (State "none" or describe limitations, if any). This authority shall remain in full force and effect until such time as the revocation of authority by any cause whatsoever has been furnished in writing to and acknowledged by the Contracting Officer. (Names and signatures of all partners.)

B. REPRESENTATIONS AND CERTIFICATIONS

Name Of Proposer _____

Proposers DUNS #: _____

Proposers CAGE Code: _____

Address Of Proposer: _____

Date Of Proposal: _____

Name of Offeror or Contractor:

L.2.3.6 If the offeror request Progress Payments, then provide evidence from Defense Contract Audit Agency (DCAA) or Defense Contract Management Agency (DCMA) that your accounting system is adequate for receiving Progress Payments. If the offeror can not provide such evidence and wishes to receive Progress Payments, then an evaluation of the offeror's accounting system will be performed by DCAA subsequent to contract award. The proposal must not be made contingent upon receiving Progress Payments. If Progress Payments are not authorized after contract award, there will be no adjustment in contract price.

L.2.4 Volume IV - Past Performance/Small Business Participation Volume. This volume shall be broken into two sub-volumes: 1) Past Performance and 2) Small Business Participation. Offerors are strongly encouraged to submit the Past Performance sub-volume to Denise Mika by 15 APR 2004. The specific input required is described below:

L.2.4.1 Past Performance (Element 1): The Offeror is required to provide the following under this element:

L.2.4.1.1 Clearly identify what specific contract requirements (hardware and services) will be performed by you, the prime contractor, and which will be performed by subcontractors. Identify and provide past performance information for significant subcontractors. Significant subcontractors are defined as those providing the following items:

- a. Heavy Truck
- b. Medium Truck
- c. Recovery Vehicle
- d. Kitchen Trailer
- e. AK 47
- f. Body Armor
- g. Individual Night Vision Device
- h. Weapon Mounted Night Vision Device

L.2.4.1.2 Recent/Relevant Contract Information: The Offeror shall identify and submit no more than five of the most recent/relevant contracts for each of the Prime and no more than three each for significant subcontractors. These contracts may include Federal, State, and local government and commercial contracts. Recent contracts are those with any performance occurring within the five years prior to the date this RFP was issued. Relevant contracts are those that are similar in scope to the requirements of this RFP.

Relevant past performance for the prime contractor will tend to include contracts that require the following types of efforts:

1. Furnishing equipment and services of the complexity, type, and quantities similar to those contained in the solicitation.
2. Management of a diverse, global supplier base.
3. Management of items subject to export and munition controls.

For subcontractors, relevant contracts are contracts for delivery of similar items offered in this proposal in similar quantities.

For each of your recent/relevant past contracts, provide the following information:

- a. Contract Number and company or agency that awarded the contract
- b. Narrative Description of the work scope and dollar value and a comparison with the work scope and anticipated dollar value of this solicitation
- c. Contracting point of contact, technical point of contact for that customer, including their addresses, phone numbers, and e-mail addresses
- d. A discussion of any noteworthy quality, delivery, or customer satisfaction accomplishments or recognition
- e. A discussion of any quality, delivery, or customer problems that occurred, how they were resolved, and steps taken to avoid similar problems in the future.

Note: If the point of contact does not speak English, it is the Offerors responsibility to have an interpreter present if this person is contacted by the Government.

L.2.4.1.3 Key Personnel: If you have limited or no recent or relevant past performance, but have key personnel who will be playing a significant role in this effort who do have relevant experience, we may consider this experience in our evaluation of performance risk. In order for us to consider such experience, please identify these personnel and describe their relevant roles and responsibilities for their previous employer, and their roles and responsibilities as planned for the current requirement. Also provide similar information to that identified above in L.2.4.1.2 for those contracts that these key personnel were involved in with those previous employers.

Name of Offeror or Contractor:

L.2.4.1.4 Thorough and Complete Information: The Government does not assume the duty to search for data to cure problems found in proposals. The burden of providing thorough and complete past performance information remains with you. We may assign a "higher risk" rating to your proposal, or reject your proposal if we do not receive the information requested.

L.2.4.1.5 Questionnaires: A Past Performance Questionnaire is provided with the solicitation in Attachment 2 and at the IAF Battalion Set website <<http://contracting.tacom.army.mil>>, under Warren Business Opportunities, Iraqi Requirements, IAF titled "Past Performance Questionnaire" for your use in electronically sending to your customers. Immediately upon receipt of the solicitation, the Offeror (or proposed subcontractor) shall send a copy of the past performance questionnaire directly to (a) the federal, state and local government or (b) the commercial private industry points of contact (contracting and technical) identified for those contracts listed pursuant to L.2.4.1.2. The Offeror (or proposed subcontractor) should request that these individuals complete the questionnaire and forward it electronically directly to the Government at mikad@tacom.army.mil no later than five days before the solicitation closing date (See Block #9 of the SF 1449 cover page to this solicitation).

In addition, the Offeror is requested to prepare and submit to the Government (within ten (10) days of issuance of this RFP) a list of the references to which the Past Performance Questionnaire was sent. The reference list must be sent to Denise Mika, mikad@tacom.army.mil, and shall contain the following information:

- (1) Contract Number / Delivery Order
- (2) Program Title
- (3) P / S (Enter "P" if performed as a prime contractor or "S" if performed as a subcontractor)
- (4) Customer point-of-contact with telephone number and e-mail address
- (5) Date questionnaire was sent to the customer

L.2.4.2 Small Business Participation (Element 2):

This provision applies to every Offeror (U.S. and non-U.S.), regardless of size status or location of its manufacturing facility or headquarters.

a. All Offerors, including Offerors who are either (1) themselves U.S. small business concerns based on the North American Industry Classification System (NAICS) code assigned to this requirement or (2) non-U.S. based foreign firms, are to identify the extent to which U.S. small business concerns would be utilized as first tier subcontractors in the performance of the proposed contract. U.S. small business concerns are defined (1) in FAR 19.001 and (2) by the criteria and size standards in FAR 19.102 for the applicable North American Industry Classification System code. U.S. Small Business concerns include Small Businesses (SBs), Small Disadvantaged Businesses (SDBs), HUBZone Small Businesses (HUBZone SBs), Woman-Owned Small Businesses (WOSBs), Veteran-Owned/Service-Disabled Veteran-Owned Small Businesses (VOSBs), Service-Disabled Veteran-Owned Small Businesses (SDVOSBs) and Historically Black Colleges/Universities and Minority Institutions (HBCU/MI). Also included in the definition of Small Businesses in this acquisition are subcontracts to Coalition Partner Companies (including Iraqi owned and Iraqi Woman owned companies) and Force-Contributing Nation Companies (CPC and FCNC).

SAMPLE:

BASE YEAR BUSINESS CATEGORY	Maximum Contract Value	Percentage of SB Participation*
Total Subcontracting (LB+SB)	\$100M	100%
SB	\$10M	10% (\$10M of \$43M)
SDB	\$.5M	5 % (\$.5M of \$100M)

*Includes 1st tier subcontractors only; Interdivisional transfers are considered subcontracts; includes prime Offeror participation if the prime is a U.S. small business concern.

b. All Offerors, regardless of size and whether the Offeror is a U.S. or non-U.S. firm, are to provide, the names of small business concerns (including the prime Offeror if a small business concern) who would participate in the proposed contract; the small business classification of each small business concern (i.e. SB, SDB, WOSB, VOSB, HUBZone SB, and/or HBCU/MI); a short description of the specific work to be performed by each small business concern; and the estimated total dollars for such work. This data shall be provided in a table format substantially as follows:

<u>Base Year</u> Name of Small Business Concern	Small Business Classification(s)	Description of Work	Total Dollars
ABC Co.	SB	MXXX Pistol	\$1.50M
ABC Co.	SB	Training services	\$0.75M

Name of Offeror or Contractor:

EFG Inc.
(Prime Offeror)

SB, WOSB, VOSB

Training manuals

\$1.20M

c. As defined below, Offerors shall also provide the following:

(1) Offerors who ARE either (1) a U.S. large business, as defined by the North American Industry Classification System code applicable to this solicitation (336111/1000 employees), or (2) a firm who has previously performed a Contract containing FAR 52.219-9, are to provide a description of their performance in complying with the requirements of FAR 52.219-9, including documentation of their accomplishment of the goals established under Subcontracting Plans of prior contracts. This data shall include contracts performed over the last three calendar years. Firms which have never held a contract incorporating FAR 52.219-9 shall so state.

(2) All Offerors who ARE NOT either (1) a U.S. large business, as defined by the North American Industry Classification System code applicable to this solicitation, or (2) any firm who has previously performed a Contract containing FAR 52.219-9, shall substantiate their proposed approach to meeting the requirements of FAR 52.219-8. Substantiation may include providing (1) a description of the Offeror's performance, over the past three calendar years, in complying with the requirements of FAR 52.219-8 (Note: if the Offeror has not performed a contract, over the past three years, which included FAR 52.219-8, the Offeror shall so state); (2) a description and available documentation of any methods or techniques used to promote U.S. small business participation; (3) any listings of U.S. small business concerns who are subcontracting candidates; (4) the internal procedures used to monitor small business participation during contract performance, and/or (5) any other information substantiating that the Offeror will satisfy the requirements of FAR 52.219-8.

L.2.5 Restriction on Disclosure of Data.

If the Offeror wishes to restrict the disclosure or use of its proposal, the legend permitted by FAR 52.215-1(e) shall be used. Per FAR 52.215-1, found within the provision "Instructions to Offerors-Competitive Acquisition",

Offerors that include in their proposals data that they do not want disclosed to the public for any purpose, or used by the Government except for evaluation purposes, shall --

(1) Mark the title page with the following legend:

This proposal includes data that shall not be disclosed outside the Government and shall not be duplicated, used, or disclosed -- in whole or in part -- for any purpose other than to evaluate this proposal. If, however, a contract is awarded to this Offeror as a result of -- or in connection with -- the submission of this data, the Government shall have the right to duplicate, use, or disclose the data to the extent provided in the resulting contract. This restriction does not limit the Government's right to use information contained in this data if it is obtained from another source without restriction. The data subject to this restriction are contained in sheets [insert numbers or other identification of sheets]; and

(2) Mark each sheet of data it wishes to restrict with the following legend:

Use or disclosure of data contained on this sheet is subject to the restriction on the title page of this proposal.

Individual subcontractor/vendor proprietary information may be submitted via separate binders/CDs. The information contained in these binders/CDs must be referenced (by binder title, page, and section number as appropriate) within the main proposal where the information would have been included if it were not subcontractor/vendor proprietary. The information in these separate binders/CDs is subject to all other requirements of the RFP and must be well marked to clearly indicate any special handling instructions.

L.2.6 Notice to Offerors

Offerors are notified that a class deviation may be granted resulting in an amendment to Section I, Contract Clauses, DFARS 252.225-7021, Trade Agreements (Jan 2004), which would add to the definition of Designated country all countries listed in Section H, paragraph H-1, Source From An Eligible Country. For proposal submission purposes, offerors should assume that the countries listed in Section H, paragraph H-1, are all included in the definition of Designated country in DFARS 252.225-7021.

*** END OF NARRATIVE L 001 ***