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SECTION A - SUPPLEMENTAL INFORMATION

PURPOSE OF MODIFICATION: Change specifications and unit price of Medium Vehicle

A: Paragraph C.2.1(aa) has been changed to allow for side mount jerry cans.

B: CLIN 1001AA, Medium Vehicle, unit price for the 1st period has been changed from \$19,915.00 to \$19,665.00. The unit price for the 2nd and 3rd ordering period has been changed from \$20,512.45 to \$20,262.45. This is a decrease of \$250.00 per unit in each ordering period.

C: Remove Attachment 3, Pricing Spreadsheet as revised by modification P00006, 16 Aug 04 and replace with Attachment 3, Pricing Spreadsheet as revised by modification P00008, 23 Sep 04.

D: All other terms and conditions remain the same.

*** END OF NARRATIVE A 008 ***

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ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
1001AA	<p>SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS</p> <p><u>FIRST ORDERING PERIOD</u></p> <p>NOUN: MED WHEELED VEH IAW SEC C</p> <p><u>Packaging and Marking</u> PACKAGING/PACKING/SPECIFICATIONS: BEST COMMERCIAL PRACTICES LEVEL PRESERVATION: Commercial LEVEL PACKING: Commercial</p> <p><u>Inspection and Acceptance</u> INSPECTION: Destination ACCEPTANCE: Destination</p>	EST 990	EA		

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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.1.3.1 Item/Model Designations: Item and/or numbers designated by the Offeror/Contractor, as meeting the requirements of this Statement of Work are incorporated into this contract at Attachment III. The Contractor is required to provide the designated items and/or models, as modified to meet solicitation requirements. Nothing in this clause shall be construed as relieving the Offeror/Contractor from meeting all the requirements of this contract.

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

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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.

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 side 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.

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C.2.2 Heavy Wheeled Vehicle:

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

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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 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 an 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

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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 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.

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- 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.
- 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.
- g. 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.

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- 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 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.
- q. 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

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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 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.

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- 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.

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. Twenty (20) belts in lengths of 200 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.

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- 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.

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

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Battery chargers for rechargeable batteries
Spare parts kits (additional antennas)
Dust covers

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.

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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
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.

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Support Equipment:

220V AC power supply
Antenna
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

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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 fixed HF station cited in C.4.5
Transcript 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.

- Allow operation in low light conditions considered to be the equivalent of clear starlight conditions.
- Can be mounted to an individuals head with adjustable straps.
- Shall have a Helmet Mounting Kit
- Allow individuals to drive vehicles and conduct operations in low light condition with all items and equipment identified in this Statement of Work.
- Allow individuals to engage targets in low light conditions with weapons cited in C.3.
- Be battery operated with an individual battery (set of batteries) life of eight hours of continuous operations without degradation.

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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/PAQ-4C) 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.
- Allow operation in low light conditions considered to be the equivalent of clear starlight conditions.
 - Be a laser pointer similar to AN/PAQ-4C that allows target pointing to 750M.
 - Be mountable on the weapons cited in Section C.3 (except 9mm Hand Gun).
 - 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.
 - Be battery operated with individual battery (set of batteries) life of 14 hours of intermittent use (normal operations).
 - 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

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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 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, 50% medium, and 30% 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 or square in shape and constructed of heavy duty fibers. It will be waterproof. Minimum dimensions shall be 4.8m x 4.8m x 1.6m 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.7.17 Shipping Containers:

The shipping containers shall consist of 20' and 40' used containers, AECF, cargo and seaworthy. The containers shall be structurally sound, and wind and weather tight. The containers ordered shall be those that the equipment is delivered in, and title transfer shall be at the delivery destination upon inspection and acceptance.

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

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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
- f. Tools necessary to support the training.

*** END OF NARRATIVE C 001 ***

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SECTION J - LIST OF ATTACHMENTS

<u>List of</u> <u>Addenda</u>	<u>Title</u>	<u>Date</u>	<u>Number</u> <u>of Pages</u>	<u>Transmitted By</u>
Attachment 003	PRICING SPREADSHEET, AS REVISED BY MODIFICATION P00008	23-SEP-2004	002	DATA