

Attachment 1 – Statement of Work Jungla Base Camp Tumaco

1.0 Statement of Work

1.1 General

The offeror shall provide all labor, materials, equipment, machinery, and components to construct the requested structures. The offeror shall provide for review and approval the design, drawings, material properties for the structures to be provided and identify an ability to support the logistical and security requirements associated with project execution.

The offeror shall have the capability of providing ballistic barrier defense system structures designed to protect against ballistic penetration of direct small arms fire and fragmentation projectiles. Defense systems are to be fabricated utilizing a minimum NIJ III Steel or minimum 26 gauge galvanized steel panel barrier system which can be easily installed in an austere location. The defense system structures shall be constructed/assembled using pre-fabricated structures that are easily and securely reassembled in order to ensure efficient on-site assembly while at the same time appropriately and safely distributing the weights of loaded material within the system. Once installed, the system shall offer immediate stability meeting all appropriate Colombian building and structural codes. The defense system shall include all required accessories, such as corners, connectors, anchors and protection elements. The defense system shall be easily disassembled should it be required at a future date for assembly and installation at another site.

1.2 Assembly Process

The offeror shall provide and assemble the defense system structures according to the following procedures:

- 1.2.1 A geotechnical survey will be provided. The offeror is solely responsible for the design of the defense structures and shall submit for review by the INL Section engineer team a detailed report, which is to include but is not limited to the technical requirements, material requirements, design and drawings of the defense system structures, the recommended approach for the project and a detailed timeline/critical path.
- 1.2.2 Transportation of Materials. The offeror is responsible for coordinating the transportation of all required material for assembling the defense system structure. If fill material must be delivered to the project site, then the offeror is responsible for this effort. The offeror is responsible for ensuring that all project material is delivered in an appropriate and timely manner, taking the necessary precautions to avoid any damage to the material from vibration or movement during transport, with full consideration and responsibility given for all transportation security requirements.
- 1.2.3 Assembly of Defense System Structures. The offeror is solely responsible for the mounting, installation, and assembly of the defense system in a safe, proper and timely manner.

1.2.4 Fill Material. The offeror will be provided a site-specific geotechnical survey, and shall ensure the site properties meet the required physical properties to support the structure offered. Should the offeror require any fill material from a different site to assemble defense system, the offeror shall take fill material soil samples and/or perform other appropriate soil studies to determine suitability of said material. The offeror is responsible for ensuring that the fill material used to fill any protective barrier associated with the structure meets all force protection requirements, and that the material does not include rocks or other inappropriate material that may cause injury or pose a safety risk should the bastion defense system come under attack. Shrapnel-producing material (3/4" and larger) must be screened and removed prior to filling the bastion.

If delivery of fill material is necessary, the offeror shall include the location where appropriate fill material is to be obtained. The offeror is solely responsible for the acquisition of and quality of all fill material

1.2.5 Equipment and Machinery. For each project, the offeror shall identify, procure or rent the appropriate equipment and machinery to be used, based on the project requirements.

1.3 Site preparation. For each project, the offeror shall identify additional tasks required to install a complete defense systems, including but not limited to, appropriate soil stabilization/fill, compaction to ensure appropriate ground bearing capacity, disassembly/removal of existing fencing and structures, leveling/grading, etc. If any surface or subsurface obstacle is encountered, it shall be removed and properly disposed of or if required (i.e. fencing, utilities, aqueduct, sewage line etc), shall be properly relocated/rerouted to allow for the construction. All work shall be performed in accordance with the latest Colombian National Construction Codes. In absence of a Colombian construction code US Construction codes apply.

1.4 Water and sewage services. When required, the offeror shall ensure proper relocation/rerouting of water, sewer, and electrical installations. These items shall be detailed and individually priced. The offeror shall install and connect a septic system to the bathroom container and shower units that shall be installed separately on site by the Colombian National Police. The offeror shall indicate in its proposal how it plans to manage this task. The offeror shall provide a civil-hydraulic certified engineer for designing and executing the work with demonstrated, relevant experience for design and on-site supervision. All work shall be performed in accordance with the latest Colombian National Construction Codes. In absence of a Colombian construction code US Construction codes apply.

1.5 Power services. The offeror shall identify all tasks required to provide power services. These items shall be detailed and individually priced. The offeror shall design, install and connect to Tumaco public power grid all electrical to the defense systems requested in this solicitation as well as connect to Tumaco public power two 20' pre-wired office containers, one pre-wired 20' bathroom container that shall be installed separately on site by the Colombian National Police. The offeror shall indicate in its proposal how it plans to manage this task. The offeror shall provide a certified electrical engineer for the completion of electrical design and installations and equipment with demonstrated, relevant experience for design and on-site work. This task includes but is not limited to: external movable spotlights; reflectors; system planning and construction of electrical infrastructure (if required posts, cabling, substations, transformer, and generators, etc.), in

accordance with the latest Colombian National Construction Codes. In absence of a Colombian construction code US Construction codes apply

2.0 Delivery Location and Time.

The offeror shall deliver all defense system material and components to the work sites by the date and time specified.

The offeror shall be responsible for ensuring that its personnel and subcontractors follow any special instructions for delivering materials, as may be specified. This applies to any outside sources or subcontractors that might be delivering materials to a project site on behalf of the contractor. The contractor is responsible for the security of the material and components.

3.0 Completion, inspection, and delivery

The offeror shall include a project management tool (Gantt chart, critical path, or equivalent) indicating preparation, delivery, installation, clean up/turn over, and related tasks.

4.0 Specifications.

4.1 General.

All defense systems provided/assembled by the offeror shall meet the following minimum specifications:

Shall be ballistic, fireproof, meet most updated Colombian National Codes (NSR-10) / International Building Code in a seismic area and shall provide adequate resistance against external environmental factors (e.g., humidity, sea salt, excessive wind, fungus, mold, ultra-violet radiation). Surfaces shall be resistant to corrosion throughout the warranty period.

The metal barrier defense systems structure shall effectively mitigate damage from direct fire and indirect fire weapons attacks.

The metal barrier defense system structure must be made from material that is currently either National Institute of Justice (NIJ), -U.S. Department of State (DOS) , U.S. Department of Defense (DOD) , U.S. Army Corps of Engineers, U.S. Nuclear Regulatory Commission (NRC) or U.S. Embassy Bogota International Narcotics and Law Enforcement (INL) Section tested and approved.

All electrical installation shall comply with the following electrical standards: NTC 2050 last upgraded version included but not limited to chapters 1,2,3,4 and section 645, NEC 250 last version upgrade, NTC 3471/UL 67, EIA/TIA 607, EIA/TIA 568-569 last version upgraded, ANSI/IEEE C62.41-C62.45, NEPA 780, NTC 4552, IEEE-80, IEEE-77 and RETIE last version upgraded.

4.1 Camouflage/Paint.

The metal barrier material shall be able to withstand elements to include UV rays, salt air, moisture etc. possible covering by wild plants, without reducing or compromising the structural security and stability of the structures. The sides and surfaces of each installed component shall prevent any adverse affects from the root growing process of plants that may grow to cover the surfaces. Structures must be painted in accordance with the installation paint scheme.

4.2 Maintenance.

Following installation, the installed defense system's design shall facilitate easy maintenance without the need to disassemble any of the components. All damages - environmental, accidental or combat-related - shall be easily corrected using the same materials as were used in the original construction. During the warranty period any damage related to poor site preparation, design, quality of material or construction shall be repaired by the contractor. All damages shall be repaired in such a manner so that the repaired defense system has the same resistance and level of protection as before the damage occurred.

4.3 Warranty.

The offeror shall provide a defense system that will remain stable with the required level of force protection for a minimum period of 10 years. During the ten-year period following installation, the constructed defense system shall be able to retain its quality and protective properties. The warranty shall cover all of the components used to construct the bunkers -- to include labor-- for 10 years and shall cover for a period of 5 years the lighting associated with the structures (minus the filament which is subject to normal use wear and tear).

5 Supply and Required Components. The offeror shall provide all required components.

6 Required Components. The offeror shall provide the following defense system components:

6.1 Supply And Install Two Ballistic Personnel Lodging Bunkers With Lodging for a minimum of 26 Men Per Facility (Lodging total for no less than 52 men).

- Provide adequate inner area to comfortably accommodate 26 men with personal equipment per lodging bunker with a minimum inner area clearance no less than 7m W x 14m L x 7' H.
- Fortified ballistic lodging structure, constructed utilizing either a ballistic certified steel material that is a minimum NIJ III compliant or a metal barrier panel system that is assembled utilizing a minimum of 26 gauge galvanized steel panels properly filled with a sand or a gravel mix (with no rocks or particles larger than 3 inch (76.2 mm)) providing protection from direct small arms and 40 mm HE grenade fire and indirect fire of a 12lb C-4 equivalent charge at a minimum of 3 meters from the structure.
- Required ballistic certification of material used by one of the following: National Institute of Justice (NIJ), United States Department of State (DOS), United States

Department of Defense (DOD), United States Nuclear Regulatory Commission (NRC) or US Embassy Bogota, INL Section.

- A reinforced and finished concrete pad deck with moisture barrier, high gloss washable white painted galvanized steel, dura-board or mold resistant super board finished ceiling and interior wall lining; two ballistic steel security doors with steel door frames, screen doors and commercial grade programmable card entry high security locks, minimum 14 110-Volt heavy duty GFCI double electrical receptacles, electrical panels as required, two 220 Volt AC receptacles to support split Air Conditioning units, fluorescent lighting to meet proper interior illumination requirements/code for billeting, ventilation (fans) sized to support proper ventilation, Split AC HVAC sized for the space and securable/shuttered (hardened/ballistic) mosquito screened windows for ventilation.
- The level of protection shall include the roof; and rafters load designed to support a minimum overhead ballistic protection of 2' of cover (sand) topped by a wire/rebar mesh to mitigate the effect of indirect fire/pre-detonate rockets, grenades, mortars, etc.
- Ground level fire ports shall include a removable grenade screen made from the same material as the fire ports and sized to cover the entire interior opening.
- Include both front and rear ballistic blocking wall allowing for safe entrance and egress to bunkers while under fire.
- Provide six windows, three per length of the structure that can be opened for ventilation and are easily securable with ballistic steel shutters.
- Provide material and connection (including if necessary a transformer) to Tumaco public power for the two 26 Man Ballistic Personnel Lodging Bunkers, two 20' pre-wired (110 volt) office containers, one pre-wired 20' (110 volt) bathroom container. The containers will be pre-installed on site by the Colombian National Police.
- Provide and install a septic system to support no less than a 100 man base camp population. System shall have a minimum full service (parts and labor) warranty of a minimum 4 years.
- Provide and install an efficient, easily operable and maintainable salt water purification system capable of purifying 300 gallons per hour from a brackish water source located on site. System shall have a full service (parts and labor) warranty of a minimum of 4 years.
- Provide and install a water supply system from the ROWPU to the base camp showers and toilet facilities.
- Provide and install a tower mounted 1000 liter fresh water storage tank