

## **ATTACHMENT 1 SPECIFICATIONS**

### **GENERAL DESCRIPTION OF THE PROJECT**

The following are the main characteristics of the works to be executed at the Police Base located in Santa Marta, Magdalena.

The works include, but are not limited to, the construction of an 18m-high rappel tower with concrete foundation and structure, masonry wall, chain link fence and metallic elements for access and support. The works include the execution of the works and activities necessary for the lighting protection and grounding system for the tower, as well as the obstruction lights.

It is understood that the Contractor shall verify the measurements and become familiar with the terrain and the existing conditions before sending his quotation. In this statement of work, guide measures are given for the Contractor to check the drawings and the construction quantities chart and to check the physical conditions on site. In no way do these figures commit the Embassy to pay additional quantities if the resulting measures on site vary from the information given by the US Embassy.

For the structural, metallic and protection installations, the Contractor shall supply a maintenance and inspection manual for routine activities, with recommendations for the inspection and maintenance after storms of severe load conditions.

### **DETAILED DESCRIPTION OF THE PROJECT**

#### **1) PRELIMINARY ACTIVITIES**

The Contractor shall make the applicable verifications in order to certify the designs given to them are adequate for this installation and shall guarantee the correct execution of the works, fulfilling the standards of the applicable codes before the start of the construction process.

The Contractor shall do a soils study including borings in the zones where the bases of the tower are to be located. The depth of the borings shall be defined by the Contractor and the US government representative in accordance with the conditions of each site. The Contractor shall execute the necessary tests in order to verify the soil classification, the soil admissible load and the depth for the construction of the foundation structures for the tower.

All works are to be constructed pursuant to the NEC, ACODAL, ICONTEC, EIA, AISC and NSR-10 and each shall be applied according to the necessity. The Contractor shall guarantee that the project meets all the rules of the Ministerio del Medio Ambiente and the Departamento Administrativo de la Aeronáutica Civil.

#### **1.01) Provisional installations**

The Contractor shall submit a drawing with location of the camp, fencing of the construction site and temporary services (water, energy, telephone, etc.), before starting its installation, for the approval of the US Government representative. All the installations shall be removed by the Contractor with the approval of the US Government representative when the works are finished. The site shall be left as it was found before the start of the constructions, with grass, sidewalks, etc. This removal, along with the installation, shall be quoted at a global price and shall be included in the total cost of the project.

Provisional services: the eventual supply of any service by the final user to the Contractor shall not be a conditioned help and its eventual suspension shall not give place to any claim by the Contractor. The Contractor shall provide alternative services for these situations.

### **1.02) Security of the construction site**

The Contractor shall supply security services for the construction site and the camps. The US Government representative and the final user shall not be responsible for the payment of the security services nor for the elements left at the construction site.

### **1.03) Provisional fencing**

The work site shall be completely isolated by fencing from zones or roads surrounding the same. Similarly, if a materials storage area is built, this shall be fenced off in the same manner. The Contractor shall build a fence for this purpose, consisting of synthetic canvas with wooden posts every two meters, kept taut by means of wires at the top, middle and bottom. The Contractor shall fit props at either side of the access door or whenever there is a change of direction. This fence shall have one access point only, a double door through which machinery, vehicles and personnel shall enter. While the works are in progress, the Contractor shall ensure that the fence is maintained and repaired, so that it is always in suitable condition.

### **1.04) Location and layout**

The Contractor shall use precision topographical instruments and following the architectural and structural distribution. The Contractor shall draw up the ground plan for each of the elements to be constructed. The area to be constructed is that indicated in the plans, plus the extra widths and the utilities connections. This work shall be done by a qualified professional, who shall determine the levels in addition to the ground plan. Everything shall be bench-marked on securely anchored wooden bridges.

The Contractor shall supply all materials required to establish the planimetric and altimetric benchmarks, such as stakes and field books, etc. The US government representative shall review the location of the axes, but this does not exonerate the Contractor from his responsibility for errors in locating or leveling any portion of the work. Prior to locating and laying out the work, the necessary datum or tie points, both horizontal and vertical, as well as the boundaries of the terrain to be occupied shall be defined and approved.

The temporary BM and reference axes shall be placed at sites where they do not interfere with the execution of the work and where they do not need to be moved, in order to allow their subsequent control at any point during the course of the work. No marks made with paint of any type, scratches, nails, centering, etc. shall be permitted on any current building or structure. Once the layout is complete, the Contractor shall submit a scheme for approval, including the location of existing structures and vegetation.

### **1.05) Removal of surface layer**

This includes the area shown in the drawings as the areas to be built plus an additional area of one (1) meter wide in the perimeter. The Contractor shall perform this operation by manual means taking care not to move the points of reference previously established on site. The removal of the surface layer shall be made in a thickness that can vary from 0 to 0.50 m, until the vegetation layer, the organic material and other unwanted materials deposited in the soil are completely eliminated.

The Contractor shall not limit this operation to the removal of the surface layer. It shall include the removal of roots and other objects that according to the US government representative's judgment are not convenient for the development of the works. The Contractor shall remove square pieces of grass in good shape in order to use them again. These pieces of grass shall be kept during the construction process. The leftovers shall be removed by the Contractor according to the general cleaning specifications.

## **2.01) Foundation and Concrete Structures**

### **2.01.01) Excavation**

The Contractor shall excavate and remove the remnant material until the adequate depth is reached for the location of the foundation elements for the tower according to the project drawings (See drawing C-01).

The Contractor shall do the excavations needed to execute the works and shall be prepared to excavate in any type of material, using the appropriate methods, equipment and tools. Prior to starting the excavation, the Contractor shall perform a survey of all aerial, surface or underground interference, in order not to damage pipes, boxes, wiring, posts, hoses, wells or other elements or structures existing in the work area or adjacent to it. Should the excavation interfere with sewers or pipes, the Contractor shall build adequate support or protection for these installations.

The depth of the excavations and fills shall vary according to the works to be executed and the studies done by the Contractor. The excavated material shall not be stored in the top of the excavation. It will be lifted immediately to the trucks and transported to an authorized dump located outside the base if it is required.

The Contractor shall post signs (warning signals) and provisional fencing at all excavation sites. The fencing shall consist of three yellow plastic tapes eight (8) centimeters wide and supported by temporary sleepers fastened securely to the ground, placed in order to avoid accidents. To prevent their obstruction or damage, the Contractor shall keep clear all drains, caps and catch pits in public utility networks near excavation sites.

The Contractor shall be responsible for any over excavation caused by a cave-in, deficiency of the material existing in the zone or other reasons, and shall fill at his cost the over excavation with granular material previously approved, until the excavation has the required dimensions.

The material removed from the excavation shall be removed as indicated in the general cleaning items. The Contractor shall be responsible for the conduction of surface water and the evacuation of underground water and any other type of water, as well as the supply and maintenance of drainage or pumping systems required to stabilize the slopes and avoid water getting into the excavations.

### **2.01.02) Compacting of the foundation level**

The Contractor shall compact the bottom level of the foundation for the construction of the foundation and structural elements of the tower.

The Contractor shall compact the bottom of the excavations in all the areas to build before initiating the filling activities, using mechanical and/or manual equipment. The selection of the compacting equipment shall be approved by the US Government representative and the Contractor shall adjust to the plasticity characteristics of the material to be compacted.

If during the compaction process, the bearing layers show faults or bland zones, these shall be replaced on time with excavations and fillings by the Contractor at its own cost.

### **2.01.03) Filling in compacted granular material**

The Contractor shall supply, install and compact the base in selected granular material that shall be the support for the foundation elements for the tower according to the drawings of the project.

The Contractor shall supply all the labor, materials, equipment and the execution of all the necessary works for the installation of the compacted filling material required by the project. The thickness of the fill shall vary according to the area of the foundation, for each of the works. Before initiating the filling works, the Contractor shall verify that the base material is totally clean of any vegetation, organic material and residual material from the construction and that the surfaces shall not have any inundation or zones with stagnant water.

The filling materials shall be obtained from sources authorized by current applicable environmental standards and by the Law, selected by the Contractor and approved by the US Government representative. At least 7 days before initiating the filling materials works, the Contractor shall submit to the Embassy the information on the sources of materials and shall submit all the working permits, the representative samples and the results of laboratory tests. The supply of the samples and the laboratory tests by the Contractor shall not represent additional cost to the US Embassy.

The filling material shall be constituted of sandy granular material without organic lime, vegetal material, residues, waste or debris. The maximum size of the material shall not exceed five (5) centimeters. The fines content (percentage passing sieve No. 200) shall be inferior to 20% and the plasticity index of the material passing sieve # 40 shall be lower than 6%. The filling material shall be compacted in symmetric layers of ten (10) centimeters and 95% of the density shall be obtained with the compaction test of the Modified Proctor. The methods and equipment of compaction shall have the approval of the US Government representative.

### **2.01.04) Cyclopean concrete Support:**

The Contractor shall perform the construction of cyclopean concrete for the foundation, in the positions and dimensions shown on the approved structural plans for the project and shall include the supply of all materials, labor, facilities and equipment required. The Contractor shall supply and install all straightedges that shall be necessary for restraining and shaping the concrete, and shall lay all reinforcement steel that might be needed, in accordance with the approved structural plans. 40% of rock of 15-20 cm. average size and 60% of concrete with a resistance of at least 3000 psi shall be used. The entire construction process should comply with the NSR-10 requirements, specifically Chapters C.1 - General Requirements, C.3 - Materials, C.4 - Durability Requirements, C.5 - Concrete Quality, Mix and Laying, C.6 - Straightedges, Embedded Pipe work and Construction Joints, and C.7 - Reinforcement Details, all in accordance with Chapter C.2 - Definitions.

### **2.01.05) Concrete foundation**

The Contractor shall supply the manual labor, materials and equipment, and the execution of all the works necessary for the construction of the foundation for the tower which consists in concrete footing and pedestals, concrete tie beams and sub-floor concrete slab. Before initiating the construction of the foundation, the Contractor shall verify that the construction site is free from vegetation and construction

materials and that the surfaces do not have inundated zones or zones with stagnant water. The bases shall be leveled before pouring the concrete.

The Contractor shall build the foundation structures in accordance with the NSR-10 and the recommendations of the soils study. The concretes shall have a strength  $f'c$  of minimum 3000 psi (210 kg/cm<sup>2</sup>), which shall be certified by the Contractor using test cylinders that he will take following the applicable standards. The re-bar for the foundation shall be  $F_y = 60,000$  psi (4,200 Kg/cm<sup>2</sup>) for  $\varnothing > 3/8$ -inch and  $F_y = 34,000$  psi (2,400 Kg/cm<sup>2</sup>) for  $\varnothing 1/4$ -inch. The Contractor shall follow the parameters of the design supplied by the US Embassy.

The Contractor shall supply the formwork, transportation and installation of the concrete for the footing and pedestal as well as for the concrete tie beams and sub-floor slab including the reinforcement steel specified on the structural design.

The Contractor shall include the execution of the corresponding laboratory tests as required. The Contractor shall take 6 sample cylinders for concrete resistance tests per pouring or per each 5 m<sup>3</sup>, in order to test 2 cylinders at 7 days, 2 cylinders at 28 days and leave 2 cylinders as proof samples. The results of the laboratory tests shall be given at the right time to the US Government representative.

#### **2.01.06) Concrete Structural walls**

The Contractor shall supply the manual labor, materials and equipment, and the execution of all the works necessary for the construction of the concrete structural walls as shown on the attached structural drawings. Before initiating the construction of the concrete walls, the Contractor shall verify that the construction site is free from construction materials and that the previous structural elements are completely finished and leveled. The Contractor shall verify that the conditions on site are optimal before pouring the concrete. This item shall be executed in accordance with the characteristics of the concrete and reinforcement described on item 2.01.05.

#### **2.01.07) Concrete floor slab (Level 2 – Level 7)**

The Contractor shall supply the manual labor, materials and equipment, and the execution of all the works necessary for the construction of the concrete floor slabs as shown on the attached structural drawings for level #2 through level #7. Before initiating the construction of the concrete floor slabs, the Contractor shall verify that the construction site is free from construction materials and that the previous structural elements are completely finished and leveled. The Contractor shall verify that the conditions on site are optimal before pouring the concrete. This item shall be executed in accordance with the characteristics of the concrete and reinforcement described on item 2.01.05.

#### **2.01.08) Structural Masonry**

The Contractor shall build perimeter walls in the areas indicated on the attached structural drawings that partially encloses two sides of the tower (See also architectural drawings). The Contractor shall build these walls on 0.39 x 0.15 x 0.19 m concrete block (CMU) type at least 0,15 m wide, plaster on both sides with mortar (Proportion 1:3) and minimum thickness of 1.5 cm

The Contractor shall make the walls of top quality materials stated under each item. Block dimensions shall be homogeneous, with edges well finished. The Contractor shall use mechanical cutting of parts. The Contractor shall build the walls at the places shown on the drawings. Joints shall not be thicker than 1.2 cm or smaller than 0.7 cm. In this case and since there is visible masonry, joints shall be fluted (1 cm deep). The CMU units shall have a rough finishing.

The Contractor shall take into account that the vertical deviation in a wall three meters high or less shall be not more than 3 mm. The Contractor shall use mortar in the proportion of 1:3 for jointing the CMU.

The Contractor shall include all joints and structural items. Samples shall be submitted for approval before purchasing and installation.

### **3.01) Steel Structure**

The Contractor shall supply and install all the metallic elements in accordance with the drawings and the parameters of the design supplied by the US Embassy, including all the elements and accessories necessary for its fabrication, assembly and installation. The metallic elements refer to the metallic stairs, handrails, support structures, and roof support structures. Before the construction of the metallic structures, the Contractor shall verify the design supplied by the US Embassy, the shop and construction drawings, and the description of all the fabrication and assembly system, characteristics of bolts and welding, steel qualities, painting, etc. If it is found that some design changes are necessary, they shall be done in order to fulfill the standards. These changes shall be taken into account in the proposal. When executing the project, this shall be done in total accordance with the current standards.

The main design standards are the EIA-222F, the code AISC and the standard NSR-10. The design should also fulfill the following minimum specifications for the structural elements:

- The struts, diagonals and steps which are high resistance steel shall comply with the ASTM A572 Grade 50, with a leverage point of 50,000 psi or 350 Mpa.
- The brackets and union metal plates which are normal resistance steel shall comply with ASTM A36 with a leverage point of 36,000 psi or 250 Mpa.
- The nuts and bolts shall comply with the ASTM A394 and ASTM A 563.
- The anchor bolts shall be SAE 1020 normalize.
- The structural elements shall be galvanized in heat by immersion according to the standard ASTM-A123.

Before beginning with the fabrication of the structural elements, the Contractor shall deliver the quality certificates of the elements in order to guarantee compliance of the specifications; otherwise the Contractor shall perform mechanical and chemical tests as described on the ASTM A370 and the A-6 designation of the ASTM.

The Contractor shall fabricate the metallic elements following the design supplied by the US Embassy, the shop and construction drawings as well as the actual edition of the AISC and the NSR-10.

The welding works and materials shall comply with the AWS D1.0 as described on the design supplied by the Embassy. The Contractor shall follow the welding requirements described on the shop and construction drawings.

The US Government representative shall inspect the fabrication and welding at the workshop, before approving the material to be transported to the project site. Any defect or correction to the steel structure or the welding works detected during the inspection shall be corrected by the Contractor with no additional cost to the US Embassy.

A sample of all the metallic elements for the tower shall be assembled at the workshop before being transported to the project site. These elements shall be chosen randomly and the adjustment of the parts shall be verified by the US Government representative along with the Contractor representative. Any

defect or correction to the metallic elements detected during the inspection shall be corrected by the Contractor with no additional cost to the US Embassy.

The Contractor shall perform the application of the protection coating, epoxy base and paint for the elements of the structure following the procedures described on the design supplied by the US Embassy. The metallic coating for protection shall be alloy between galvanized and aluminum in a 95% - 5% proportion or as suggested by the Contractor based on quality standards. The metallic elements shall be painted using base primer epoxy "Barrera epoxica" type with a minimum dry paint thickness between 1.5-2.0 mils. And the finishing paint shall be "Esmalte Uretano" type with a green or white color for the metallic elements or as approved by the CNP and the US Government representative with a minimum thickness of 2.0 mils. These paintings shall be applied with compressor, for aggressive atmospheric conditions.

The tower shall have enough resistance to support the training operations required by the Counter-Narcotics Police. The construction of the tower shall include the aligning for the correct verticality and the implementation of quality standards. All safety measures shall be considered for the installation.

After the metallic elements are assembled, the surface will be cleaned with tow cloth, in order to eliminate residues of grease, dust or humidity.

### **3.02) Chain Link Fence and access door**

The Contractor shall supply and install galvanized chain link fences for the areas assigned in the attached architectural drawings. This fence is to enclose two sides of the first level of the tower and to leave an access door to the facility. The Contractor shall install the fence in 1½" x 1½" hollow caliber 10 chain link. The fence shall be 2.60 m or the height of the first level of the tower where this shall be installed. The Contractor shall supply and install a frame for the chain link fence in a 2" x 1/8" angle, secured by a 1½" x 1/8" steel plate on all four sides, in order to avoid from it coming loose. The Contractor shall protect the angles with anticorrosive paint and with finishing paint.

The chain link support poles shall be in 2" diameter 2.60 m. long galvanized pipe with a steel plate at both ends of the pipe. The poles shall be anchored to the concrete tie beam through the steel plate, at a distance of 1.50 m. The Contractor shall take into account that the materials and paint need to be appropriate for a highly saline area. The Contractor shall include a 1.00 m width door for the fence with the same characteristics and with a lock support.

### **3.03) Roof Tiles Thermo - acoustic Type, trapezoidal shape**

The Contractor shall supply and install roof tiles of thermo-acoustic type with trapezoidal shape. The roof tiles item refers to the covering of the training platforms as shown in the attached architectural drawings. The roof tile shall be in galvanized steel sheets covered on both sides with treated asphalt and modified with polymers to avoid crystallizations, and shall have a final finish with a covering of aluminum foil with zero porosity and covered with a coat of monopigmented paint protected by anti-stain lacquer. The Contractor shall install the roof tiles over the metallic structure described on item 3.01 and as shown in the attached structural drawings. The Contractor shall fix the roof tiles in the lower part of the structure with galvanized screws with hexagonal head, conic metallic washer and a neoprene sealant washer. The Contractor shall consider roof tiles Ajovert brand or equivalent. The Contractor shall take special care not to damage the roof tiles during the transportation and installation processes, and repairs or replacement shall be foreseen.

#### **4) GENERAL ELECTRIC INSTALLATIONS**

Any electrical installation which is done by the Contractor shall comply with the following electrical standards: NTC 2050 last upgrade and chapters 1,2,3,4 and section 645, NEC 250 last upgrade, NTC 3471/UL 67, EIA/TIA 607, EIA/TIA 568-569 last upgrade, ANSI/IEEE C62.41-C62.45, NEPA 780, NTC 4552, IEEE-80, IEEE-77 and RETIE last upgrade. The Contractor shall include in his proposal catalogs and technical sheets of materials, parts and elements to be used in the project. The awarded Contractor shall also provide an electrical/electronics engineer, who shall manage and control the execution of the electrical and communication work, the proposed electrical/electronics engineer shall also sign the installation conformity and material conformity acts requested on RETIE. The Contractor shall include in his proposal the curriculum vitae of the proposed engineer.

#### **IMPORTANT**

**The required civil work for the underground raceway system and electrical installation in general shall include the costs for repairing the affected areas during the project execution (e.g. sidewalks, pavements, green areas and concretes, painting, sleeves, among others). The awarded Contractor shall comply with civil and electrical Colombian Construction standards even if the affected areas do not meet them. The bidder shall submit catalogs and technical spreadsheets for all the materials to be used during the construction project. Lack of information and omission of such data shall deem the proposal invalid and will eliminate the Contractor from consideration in the awarding process.**

The electrical works for the rappel tower shall include the following items:

##### **4.01) Obstruction lights**

The Contractor shall supply and install one obstruction light and signaling system, which shall be located at the top of the tower. The system shall have a double light set of 100 W, cable protected with galvanized pipe, supports, and a turning on switch system. The Contractor shall include for the installation all necessary materials, which shall comply with Colombian electrical standards (NTC2050) and REITE, as well as Colombian Aerial Agency "Aeronáutica Civil". The circuit for the light system shall run from the panel board, which is located at the Bunker building next to the proposed facility (15 meters approximately. The Contractor shall be responsible to confirm such distance). The Contractor shall include in his proposal the AC/DC power supply unit in order to feed the light system as well as the required galvanized piping system ¾ inches, which shall connect both beacon lights at 20 meters from the concrete slab level.

The Contractor shall canalize the secondary circuit to be installed by using the proposed galvanized pipe, which shall be placed 30 cms from current soil level, underground section shall be protected by a concrete encasement (0.1mx0.1m). The piping installation exposed to outdoor or indoor segments shall be fixed along the walls and the structure. The Contractor shall provide and install metallic junction boxes (enclosures), with dimension of 10cm X 10cm. The new enclosures shall connect the underground canalization with the exposed segments. Piping installation shall include enclosures for outdoor/indoor installation being placed on the change of pipe direction.

The secondary electrical circuit shall connect the Light system and the distribution panel board, which is currently placed on the Bunker. To accomplish this installation, the Contractor shall supply and install a

circuit protection (breaker) according to the electrical conditions required by the beacon light system's manufacturer. This breaker shall be marked according to US Government representative instructions.

#### 4.02) Grounding system- Tower

The Contractor shall supply and install a grounding system, such as requested on this item. The system shall be composed of four grounding electrodes, which shall be placed as shown in drawing E1, dimensions (5.60m X 4.60m). The grounding electrodes shall have inspection enclosures, which shall be built in concrete, diameter of 40cms, and concrete/metallic "alfajor" covers. The free space between cover and viewable ending of the grounding electrode shall be at least 60cms. The system is expected to have less than 2 ohms impedance value.

In case soil conditions were not proper to get the expected impedance value, the Contractor shall include in his proposal the soil study in order to recommend a soil treatment, which shall be required to improve the soil conditions. The awarded Contractor shall certify the system by the following sheet:

- Impedance value according to IEE 142-4.1.2
- Electrodes material NEC 250-52-c (2)
- Electrodes size and diameter NEC 250-52-c (3)
- Electrodes separation NEC 250-56
- Connection quality NEC 250-70
- Conductor's gauge network NEC 250-50 (d)
- Conductor's gauge for grounding NEC 250-66C
- Conductor qualities NEC 250-50
- Low power interconnection NEC 250-68
- Electrodes accessibility NEC 250-68
- Grounding barrage EI/TIA 607-5.4
- Flowing current IEEE 1100 table 4.3

The electrodes shall be caliber 5/8", 2.44 length, and copper 99%. The grounding line shall be made in copper conductor caliber AWG #1/0. Drawing E1 shows the grounding location and installation. Note: The electrodes' inspection enclosures shall contain a soil treatment such as Favigel or Hidrosolta, in order to improve soil conductivity and homogeneity features. As an example, Figure No.1 shows a typical inspection box required for previous projects.



**Figure No.1**

#### 4.01.03) Lightning protection system (Exterior)

The Contractor shall supply and install a Lightning Protection System (LPS), which shall be composed of one aerial terminal Franklin blunt type Ref P8, shown on Drawing E1. The air terminal shall be coupled with a copper pole 300 cm length with screw-socket, which shall be placed according to drawing E1. The aerial terminal to be supplied and installed shall comply with standard UL 96A, NFPA 780. The air terminal and the copper pole shall be placed over the top roof ridge, which shall be connected by two line downs (THHN/THWN cooper feeder caliber AWG No. 1/0), such as shown on drawing E1. Holders and isolators shall be supplied by the Contractor. Grounding line shall be separated 10 cm from the surface's structure. The line-down shall be canalized by means of a galvanized duct ¾ inch, which shall be placed along the structure, holding it by metallic anchors that shall separate each of the line downs 10 cm from the structure. The piping system shall also be grounded by using grounding kits. The line down will end in a grounding system, which shall be connected with the tower's grounding system.

The plans listed below are attached.

1. Architectural (Drawings A-001 to A-006)
2. Structural (Drawings C-01 to C-03 and E-04 to E-07)
3. Electricals (E-001)

**NOTE:** The Contractor to whom the project is awarded shall have to present catalogs and test results of all materials to use for this project.

#### **5.01) Other Requirements:**

**5.01.01) List of Personnel:** Prior to initiation of the work, a list of personnel to be employed at the site shall be submitted for review to be able to obtain access to work area, including full names, identification card numbers, place and date of birth, home address and, in some cases, a government valid certificate of good conduct and photographs. The US Government and the Base shall reserve the right to admit or withdraw personnel from the work site for reasons of security and/or due to the quality of the work.

**5.01.02) Vehicles and Machinery:** All vehicles and machinery or equipment that would schedule to enter the work area shall be itemized on a list submitted well enough in advance to be verified and to obtain an entry permit. This list shall include type of vehicle, plates, complete name and ID number and place of issue of the driver. The Contractor shall take into account the time used by vehicles and personnel in order to enter and exit the work area.

**5.01.03) Industrial Safety Person:** The Contractor shall have permanently on site a specialized person in industrial security that will be dedicated to foresee that the workers are constantly complying with the security standards of personnel and equipment, scaffolds and other installations or structures.

**5.01.04) Apparel:** All personnel shall be equipped with an overall of the same design and color, or long pants and T-shirt with sleeves of the same type and color, boots, hardhats, gloves and any security elements required for their particular activity, such as face masks or shields, gloves, boots, ear plugs, etc. Use of these items at the work site is mandatory. Likewise, each employee shall wear a laminated recent photo identity card indicating his/her name and identification card number, position, and Contractor name.

**5.01.05) Cleaning and Debris Removal:** The Contractor shall keep personnel on site to clean the construction site and nearby zones daily. The unit prices for all items, without exception, include the costs of cleaning up, loading and removal of all materials resulting from the building work. The Contractor will take these materials to an authorized dump, where the interests of the base, third parties and the

environment will not be affected (the Contractor shall follow the parameters established in Resolution 541/94 and the subsequent modifications). Material from excavations shall be deposited in such a way as to avoid blocking the entrance to the site at all times or occupying public roads while the material is being loaded into trucks for removal.

**5.01.06) Materials and Finishes:** The Contractor shall include new materials of first quality design for prolonged and heavy duty use. The Contractor shall assure good materials and excellent finishes. All the colors and finishes shall be submitted to the US Government representative for approval prior to purchase and installation.

The Contractor shall leave on site a stock of materials like bulbs, fuses, terminals or pipes that have been fitted, representing three (3) % of the total quantity, for future maintenance purposes. These items shall be handed over duly packed, identified and listed.

**5.01.07) Food, Transportation and Lodging:** The Contractor is responsible for food, transportation and lodging for personnel off Base.

**5.01.08) Information of Important Events:** The Contractor shall inform the Contracting Officer's Representative of special events or works, such as the pouring of concrete, tests and the like, giving the Contracting Officer's Representative at least seventy-two (72) hours notice so he/she can be physically present.

**5.01.09) Site Description:** Before beginning preliminary works, the Contractor shall complete a site description with photographs and an account of the actual conditions of roads, sidewalks, surrounding buildings, etc.; this report shall be signed by the Base Commander and Contractor. This report is for the purpose documenting the actual status of the area before the work is performed. This report will be used to compare the site after the work is finished. Three identical copies must be furnished: one for the user (Colombian National Police), one for the Contractor, and the other one for the US Government. If the Contractor caused any damage to the work site or other private or public property he/she shall do all the repairs prior to the contract closeout; these repairs are without cost to the US Government. At the end of the projects, a closing review and memorandum should be done with the participants and a signed copy shall be furnished in the final report.

**5.01.10) Inventory of Removed Elements:** The Contractor shall dismantle, list, and submit the reusable elements of the work site to the final user (Colombian National Police). A signed copy of this list shall be given to the user and the Contracting Officer's Representative.

**5.01.11) Protection of Elements in the Work Area:** Areas, equipment, and elements at the work site or in areas nearby shall be protected from damage or deterioration. The Contractor shall assume the cost of any repair or replacement required because of improper use or carelessness on his part or on the part of his workers.

**5.01.12) Security of the Construction Site:** The Contractor shall supply security services for the construction site and the camps. The US Government and the final user will not be responsible for the payment of the security services nor for the elements left at the construction site.

**5.01.13) Nearby Zones:** The nearby zones must be left in the same conditions previous to the construction or in better conditions (with grass, gravel, sidewalk, floor finishes, etc as applicable). Furthermore, repairs shall be done to faults, scratches, damage and anything else which the Contractor and the US Government might note in the building and neighboring constructions for ensuring that the

work is made ready and handed over correctly. The Contractor shall disassemble and remove all preliminary facilities, camps, sites, etc. before the final handover, eliminating all debris and extra materials.

**5.01.14) Underground Interferences Study:** The Contractor shall have on hand a study of all aerial, surface, underground or engaged interferences provided by the CNP, so as not to damage pipes, boxes, wiring, posts, hoses, wells or other elements or structures existing in the work area or adjacent to it. Should the excavation interfere with sewers or pipes, the Contractor shall build adequate support or protection for these installations and/or develop a new route, subject to prior approval by the US Government representative. The Contractor shall keep all drains caps and catch pits clear in public utility networks near excavation sites to prevent their obstruction or damage.

"FIRM AND PROJECT INFORMATION "

Firm Information		NIT NUMBER:	
NAME	ADDRESS	TELEPHONE/FAX	E-MAIL ADDRESS

Owners, Partners and Principal Officer

NAME	POSITION	TELEPHONE	ENGLISH COMMUNICATION (Ability to understand, write and read)

Legal Representatives and backups

NAME	POSITION	TELEPHONE	ENGLISH COMMUNICATION (Ability to understand, write and read)

Project Director, Superintendent and key technical Personnel for this project

NAME	POSITION	TELEPHONE	ENGLISH COMMUNICATION (Ability to understand, write and read)

Subcontractors for this project (if it does not apply indicate it in the chart)

NAME	ACTIVITY TO PERFORM	% DEL PROJECT TOTAL	TELEPHONE	ADDRESS AND CITY

Suppliers for this project

NAME	MATERIALS TO SUPPLY	% DEL PROJECT TOTAL	TELEPHONE	ADDRESS AND CITY

Requirements of the Offeror and Owners/partners:

DESCRIPTION	YES	NO	NOTES
Has all licenses and permits required by local law to perform?(Chamber of Commerce, Merchandise Register, Professional Licenses, etc.)			
Meets local insurance requirements (Prestaciones Sociales, ICA, Sena, etc.)			
Has the ability to obtain a performance and guarantee bond and payment bond, or adequate performance security, such as irrevocable letters of credit or guarantees issued by a reputable financial institution. Include Information			
Has adverse criminal record?			
Has political or business affiliation which could be considered contrary to the interests of the United States.			

I certify that the information is accurate and verifiable

Signature of the Legal Representative \_\_\_\_\_ Date \_\_\_\_\_  
 Name of the Legal Representative \_\_\_\_\_ Id Number \_\_\_\_\_

Artículo 289 del Código Penal Colombiano: "El que falsifique documento privado que pueda servir de prueba, incurrirá, si lo usa, en prisión de uno (1) a seis (6) años."

**"FIRM EXPERIENCE"**

Indicate the experience of the firm in similar projects performed in the last ten (10) years. Include maximum 10 projects. **Do not include certifications or contract copies.** In the case we needed we will require it afterwards.

	1	2	3	4	5
NAME OF THE CLIENT (CONTRACTING PARTY)					
CLIENT ADDRESS					
CLIENT TELEPHONE NUMBER					
CLIENT POINT OF CONTACT					
CONTRACT NUMBER					
TYPE OF CONTRACT ( * 1 )					
NAME OF THE CONTRACT OR PROJECT					
PROJECT LOCATION					
PROJECT STARTING DATE					
PROJECT FINISH DATE					
WAS THE PROJECT FINISHED ON TIME ( Explain if needed)					
SQUARE METERS OR UNITS (Indicate unit measurements)					
CONTRACT COST IN PESOS					
CONTRACT COST IN MONTHLY MINIMUM SALARIES					
INDICATE IF IN THIS PROJECT YOU WERE THE PRIME CONTRACTOR , SUBCONTRACTOR OR ASSOCIATE					
INDICATE THE PERCENTAGE OF PARTICIPATION OF YOUR FIRM IN THIS PROJECT					
BRIEF DESCRIPTION OF ACTIVITIES BEING PERFORMED					
COMPARISON OF THE WORK PERFORMED WITH THIS SOLICITATION ( *2 )					
BRIEF DESCRIPTION OF TECHNICAL PROBLEMS ENCOUNTERED AND THE WAY THEY WERE SOLVED					
METHOD OF ACQUISITION (Public solicitation, private or non competed) award criteria					
COST/PRICE MANAGEMENT HISTORY (any cost overruns and under runs, and cost growth and changes)					
HAVE YOU HAD ANY CONTRACT TERMINATIONS IN THE LAST TEN (10) YEARS?					
REASONS FOR TERMINATIONS (for contractor convenience ó for default or other)					

(\*1)Consulting, construction, design, work oversight, delegated administration If you are not a company explain if you were the superintendent, director or other.

(\*2) En here you should indicate which activities performed are similar to the work being contracted.

I certify that the information is accurate and verifiable

Signature of the Legal Representative \_\_\_\_\_

Name of the Legal Representative \_\_\_\_\_

Date \_\_\_\_\_

Id Number \_\_\_\_\_

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