

STATEMENT OF WORK
INSTALLATION OF MANUAL DROP ARM BARRIERS
AT
UNITED STATES RESIDENTIAL COMPOUND-ASPEN, Rt. 66, HARVARD, AND TAMPA
ABUJA.

1.1 General Information

This statement of work is to be accomplished at United States Residential Compounds-Aspen, Rt. 66, Harvard and Tampa located at Aspen (off Murtala-Mohammed Expwy A234), Rt. 66 (Plot 1129, Durumi District, Abuja), Harvard (#7 Thames Street, Maitama, Abuja), and Tampa (3 Osara Close off Rima Street, Maitama, Abuja).

The contractor shall install one unit of a manual operational drop arm barrier at each of the two entrances into Aspen, one unit of a manual operational drop arm barrier at each of the two entrances into Rt. 66, one unit of a manual operational drop arm barrier at each of the three entrances into Harvard, and one unit of a manual operational drop arm barrier at the entrance into Tampa. The proposed barriers shall be installed at pre-identified locations.

The contractor shall install the one manual operational drop arm vehicle barrier at a time. The commencement of the installation of the second and subsequent drop arm vehicle barriers is a mandatory dependent on the verified acceptable completion and satisfactory operational performance of the installed first drop arm vehicle barrier. The proposed barriers shall be installed at pre-identified locations.

This is a firm fixed contract due for payment only at the end of a full satisfactory performance of the project. This project requires an experienced contractor to execute the job as per the contract requirements.

2.0. General Requirements:

2.1 The cost proposal shall include all labor, material, tools, equipment, workers/equipment mobilization, description work to be completed, a quote for completion of all work, a schedule for completion of all work and demobilization, engineering and supervision required to finish, install and complete the work necessities for the installation and operation of Government Furnished Contractor Installed (GFCI) manual operational drop arm vehicle barrier as described and specified herein or in the attached manufacture's Installation and Operation Manual. The Contractor shall carry out the work as per the drawings, actual on site measurement, general specification for structural works, ASTM & relevant Codes and instructions issued by the USG representative.

- 2.2 The Contractor shall mobilize the materials, equipment, tools and resources at their workshop for the Installation of manual operational drop arm vehicle barrier and accessories. The drop arm barrier is intended to absorb vehicle impact by the beam assembly, ends support stanchions and then transmit the impact force to the structural reinforced concrete foundation hence the contractor shall perform all services, means and methods set forth in the casting of the footing to ensure conformances with the specified grade and strength of the concrete verifiable with the concrete preplacement field test and concrete test results report to be submitted to the COR's.
- 2.3 The Contractor, not the Government, is sole responsible for management and quality control to meet the terms of the contract. The role of the Contracting Officer's Representative (COR) is to monitor the Contractor's performance, advise the Contractor of unsatisfactory conditions, and notify the Contracting Officer of continued neglect and advice as appropriate.
- 2.4 The contractor shall make an advance access request for its personnel, materials, equipment and vehicles for USG approval and all contractors' personnel require photo IDs to access the USG compounds.
- 2.5 The Contractor shall schedule all work under this project during normal Embassy business hours, which are defined as 7:30am to 4:30pm Monday to Thursday and 7:30am to 1:30 pm on Friday, excluding local and bank holidays, unless approved in advance by the Contracting Officer (CO). A minimum of 24 hours prior notice will be required from the contractor for the extra work hours/days. USG reserved the flexibility of the contractor's work performance schedule plan to suit the convenience of the normal Embassy operations and support the stringent security plan. Consideration might be given to the afterhours, weekend and holidays work upon an advance notification and request by the contractor through the COR.
- 2.6 The contractor is responsible for verifying all dimensions, material quantities and existing conditions prior to submitting a quote and during the project. All potential change to the contract must be reported to COR for evaluation and consideration for contract modification. Contractor shall not perform any work other than stated in the scope herewith unless he received a written approval from the contracting officer (CO) through the COR.
- 2.7 The contractor must abide by all necessary safety requirements of the United States of America such as the Occupational Safety and Health Administration (OSHA) codes and regulations and/or local safety guidelines and compliance with whichever is most stringent. All personal safety equipment required for the subject job such as safety helmet, the Contractor to its sub A contractors/employees/workers should provide gloves, shoes, jackets, belt etc. and any other safety related items as required. The Contractor shall put-up necessary safety related signs and cautions, barricade, traffic diversion, traffic controller, traffic flag man, safety nets/covers etc. as necessary for safe and sound execution of its performance under the subject Contract. The U.S Government is not liable

for injuries or provision of required safety equipment. USG reserved the right to issue stop work order in the event that relevant safety standard is observed being violated. Contractor shall ensure that all equipment and tools are operated in a safe and complying with safety and manufacturer's manual instructions by the certified and licensed operator only.

- 2.8 The Contractor shall be required to prepare and submit reports to the COR, bill of materials, product literature, quality control schedules, project progress and schedule report, one week look head plan, safety plan and construction costs as applicable to the project. These documents shall provide the necessary interfaces, coordination, and communication between the Embassy and Contractor for the delivery of a completed project. The contractor must ensure that all materials to be used are in conformance to the materials presented in the approved submittals and bill of quantities.
- 2.9 The contractor shall be responsible for obtaining all necessary permits and approvals from all relevant authorities. All work shall comply with applicable federal, state, local and base regulations, and shall be performed using USG approved and recognized methods. Workmanship shall be of high quality as characterized by pleasing appearance, proper dimensions, proper shape, proper grade, and even surface. All manufactured items shall be installed in accordance with the manufacturer's instructions.
- 2.10 The contractor shall coordinate the work schedule and access to the work areas with the COR's. Work areas shall be cleaned up and debris disposed of properly on a daily basis. No equipment or material shall be stored on the work site without a preapproval or specific permission from the COR.
- 2.11 The contractor shall ensure that all grounds disturbed by the contractor shall be repaired to as met conditions. In addition, all areas and systems contiguous to the work site remain undisturbed.
- 2.12 The contractor must ensure that all materials to be used are in conformance to the product/materials samples presented in the approved submittals and bill of quantities reported in writing to the COR. Submittals of samples and Product Data (PD) for all contractor furnished materials input to the project execution must be preapproved by the COR unless otherwise noted. The CO/COR reserved the right to accept a pre-approved substitution of the available next grade superior or a verified equal to the material in consideration in conditions of non-availability of the specified materials.
- 2.13 All approvals for the project must be by and/or via the COR. No exceptions.

3.0 Project Requirements

- 3.1 All installation procedures and guidance shall be in accordance with Manual Drop Arm Barriers Manufacturer's Installation and Operation Manual. The stanchions are designed to direct the landing of the arm and securely contain the arm during impact and when not

in use. The installation of the barrier must be plumb, square and at correct height above the ground per the Installation Manual. Specified height of the barrier shall be measured from the roadway surface to the underside centerline of the barrier arm as shown in the Engineering Drawings in the Installation Manual.

- 3.2 The welded faces on the stanchions to the barrier guide rail and buttress supports during installation shall be grinded off after the removal of all false works to restore the stanchion to as met conditions not limited to coating with rust-oleum red oxide primer for corrosion protection and painting to match the existing color paint and paint type. The final appearance shall be to match the existing painted color of the installed vehicle barrier with a reflective gloss paint product or COR preapproved equivalent paint of color.
- 3.3 The receiver stanchions of two steel weldments, which are designed to direct the landing of the arm and securely contain the arm during impact, shall be installed per attached installation manual.
- 3.4 Concrete Footings: The receiver stanchions of two steel weldments and hinge stanchions shall be installed with cast in place vibrated mass concrete pour footings. The concrete finish top shall be the 100 mm lower than the adjacent finished road level. All posts shall be set in concrete foundations to a depth per the Manufacturer Installation Manual. All concrete work is expected to develop concrete comprehensive strength of 30Mpa minimum at 28 days of cast verifiable by compressive testing of not less than three representational samples and reported as directed herein. The Contractor is responsible for all testing and analysis costs.
- 3.5 Asphalt surface finishes: The contractor shall lay 100 mm wearing course asphalt on the top of the cast concrete footings to level with the road surface. The asphalt should be professionally laid, compacted and finished to match the existing asphalt road. No above grade or bumpy asphalt to the adjacent road level shall be acceptable.
- 3.6 Concrete Mixes: Design mixes to provide normal weight mass concrete with following properties to develop Compressive Strength (28 Days): 30 MPa minimum. Concrete workability of 125 maximum slump and 0.50 maximum water cement ratio is required.
- 3.7 Test Result: Test results shall be reported in writing to COR within 24 hours after testing. Reports of compressive-strength tests shall contain Project identification name and number, date of concrete placement, name of concrete testing and inspection agency, concrete type and class, location of concrete batch in structure, design compressive strength at 28 days, concrete mix proportions and materials, compressive breaking strength, and type of break for 28-day test.

4.0 Warranty:

4.1 This project requires one year written warranty agreement on the installation and workmanship from the contractor for repair at no cost to USG. The warranty shall start count from the issuance date of the written acceptance of satisfactory completion of the each of the manual operational drop arm vehicle barriers.

5.0 Project Completion:

5.1 The Contractor shall commence work under this contract promptly, execute the work diligently, and achieve final completion and acceptance including final cleanup of the premises within the period specified. USG reserved the right to adjust the schedule and/or phasing plan of the contractor as convenient to its operation.

5.2 Milestones:

Contractor Pre-Proposal Site Visit	[To be informed]
Award of Contract & Notice to Proceed (NTP)	[To be informed]
Construction Begins	Within 5 days of NTP
Construction	Duration of 30 Calendar days

6.0 Preliminary and Final Acceptance:

After completing the execution of a unit or milestone thereof, the Contractor shall give a notice to the COR in writing stating that the job is complete in all respects and ready for preliminary acceptance.

The job shall be jointly inspected visually by representatives of Contractor and USG representatives. All observed defects and omissions as per SOW, workmanships and specifications shall be noted down and provided to the contractor for correction.

The Contractor shall make good all defects, deficiencies and omissions noted down during preliminary acceptance and shall inform in advance the USG representatives for conducting inspection for final acceptance.

Final acceptance shall be communicated in writing through the contract COR to the contractor. Work discovered to be deficient resulting in detachment, deformation, disconnection, workmanship, or settlement before and during warranty period after completion will be documented and contractor will correct upon notification by the COR at no cost to USG.

7. Schedule for Deliverables/Statement of Qualifications

The following documents must be submitted to the Contracting Officer in order to be considered for this opportunity. The documents include:

1. Pricing Proposal and Technical Offer;
2. Brochure or other documentation of the firm indicating its experience and expertise in in the required services
3. Background information on the Contractor.
4. Relevant qualifications of the individuals that will be engaged in the work.
5. A listing of the Contractor's recent work in the required services.
6. A listing of recent prior work performed for the U.S. Embassy, if any.
7. Relevant awards and recognitions.
8. References

END OF STATEMENT OF WORK