Scope of Work for Installation of SS fence at 75, Gregory’s Road

The work consists of installation of new stainless steel fence using the embassy supplied fence material and building a wall as a part of it at 75, Gregory’s Road, a US Embassy owned property. All the work shall be in accordance with recognized US and International Building and Construction codes. Construction shall be abide by all the Embassy rules and regulations including security and safety regulations. The methods that the contractor will use need to provide continuous progress on the job site according to the projected time line of 6 weeks. Any changes in construction from this Scope of Work shall be approved in advance in writing by the Contracting Officer.

All work described in this Scope of Work and the related drawings shall be completed by the contractor. The contractor shall provide qualified supervisory, technical and labor personnel capable of meeting the embassy requirements. The labor force shall possess the masonry, construction and fabrication skills for this project and sufficient staff to accomplish the work in a timely manner. The contractor will provide all necessary tools/equipment / materials vehicles required for this work.

Contractor should ensure the minimum disturbance and no damages to the existing property of the premises and inside the building.

Work Description

1. Site Preparation

1.1. Vendor should remove the laid carpet near the fence so that the carpet can be safely lay back after the construction. The carpet should be kept in roll form without any damages to it during the construction

1.2. It is required to remove the existing old fence and it parts carefully without damaging the tennis carpet or the tar layer. The PVC coated chain mesh should be carefully roll and store for future embassy use. Rest of the unusable or the corroded iron parts need to dispose after the inspection and giving the disposal order.
1.3. It is also require removing the existing footing of the old GI pipes so that the new column base can be made as per the drawing. All the excavation and removal of soil or old concrete should be properly done so that the carpet or the tar layers do not get damaged or affected due to poor workmanship.

2. **Construction and Installation works**

2.1. **Stainless Steel Fence**

2.1.1. Thirty four base should be made for SS, 2.5” pipes so that the tubes can be rigidly installed in to the floor with G 25 concrete

2.1.2. The base size for each column is 2’ x 2’ x 3’. Vendor should pay particular attention when excavating the base pits in road side and club hall side as the exiting flower fence will significantly obstruct the construction. One side of the tennis court has a concrete drain that will again obstruct the construction

2.1.3. Embassy expects the vendor to provide original condition around the fence at the end of the construction and installation. It is the vendors responsibility to evaluate each and every column base construction during the site visit so that all the obstacles are considered and the constructed utility services can be restored at the end of the project

2.1.4. The screed of 2” and 4” thick 25G concrete base is required with 10mm tore bar steel of 5”x5” square reinforcement.

2.1.5. The reinforcement should come up to the floor level (3’) using a 4 numbers of 10mm tore bars of 8” x 8” column with stirrups of 6mm MS rod at 6” interval.

2.1.6. The RCC column should be 1’x 1’ up to the floor level with the 2.5” SS tube inside as per the details in the drawing

2.1.7. The footing for each column should be 2’ x 2’ having 2” screed and 4” RCC slab as per the details in the drawing
2.1.8. Steel tubes of 2.5” dia. should have three welded arms (approx. 6” pieces) to catch the concrete rigidly in all directions. The arms should be of 10mm SS rods or ¾” flat bar and SS welding

2.1.9. The steel tubes should start form the screed level at 2’-9” below the floor level and made a single column with 25G concrete up to the floor level

2.1.10. It is required to make the necessary fastening holes and tapping joint in SS tubs before embedded in RCC column base

2.1.11. The SS chain installation procedure will be explained in the site with drawings and supplier details.

2.1.12. Embassy provides all the stainless steel fence material as per the attached list. It covers all the material including structural tubes, sections, fasteners, bolts, chain mesh, cross bars, end caps etc. If there is shortage of material or accessories, and the cost is going to be significantly affected the quoted price, embassy officials will take the necessary action to amend the PO or to provide the material after proper evaluation.

2.1.13. The vendor should install the chain fence to cover total length of 322 feet including two gates of 5’ x 8’. Vendor should use experience fabricators and fasteners for the job as the fence height is 12’ and many adjustment and leveling is required to install all the parts together.

2.1.14. Vendor shall install the fence and complete it the without any deformation, settlement, sagging between columns, loose sections, and sharp corners or any unsafe cut or pointed finishing in any part of the fence or in two gates

2.2. **Cement Block wall**

2.2.1. Length of the 8” thick cement block wall is 40’ and the height is 12’

2.2.2. Wall contains five 8” x 10” finish columns as per the details in drawing

2.2.3. Column foundation and the base should be as per the details given in the drawing – 4” screed, 6” RCC layer with 10mm tore bar net of 6” x 6” size. Reinforcement shout have four tore bars bended in to the column
from the footing and working as the four vertical bars for the column as per the details in the drawing

2.2.4. Columns should be flushed in to the walls so that the wall and the column become a single structure. Therefore the column size should be 8" deep as of the wall and 10" wide along the wall.

2.2.5. The wall foundation should be 4" thick concrete screed and random rubble base of 14” wide 20” deep. Rest of the details as shown in the diagram

2.2.6. Construct the wall with Amano cement/concrete block – AHB6 (15.5” x 6” x 7.5”). The masonry filling should be SLS Portland Cement and no 1 quality river sand mixture of ration of 1:4

2.2.7. Outer surface of the wall should be plastered to make the wall wide to 8” using masonry plaster of fine sand and Portland cement. The finish wall should not be painted. The surface should be evenly finished cement colored wall without white washing. But the surface should be smooth and free from large particles or deformation.

2.2.8. After construction of the footing for columns as per the drawing, the wall should be built first, then the columns embedding the partly build walls as flushed column. Essentially the RCC column should be about ½” inside the level of wall finish so that the masonry plaster can be nicely applied on finished column surface

2.2.9. Bonding between the rubble wall and the column should be 100% defect free. Essentially the rubble wall should have boding edge in to the column to serve the intended purpose.

2.2.10. Columns and the wall should be consistently build together in vertical direction to make the complete wall a single structural unit to improve the load bearing capacity of it in any direction.

2.2.11. There must be a 4” thick joint lintel on top of both walls and covering the columns too, so that the Reinforcement on it should be two numbers of 10mm tore bars and ¼” stirrups in each 10” interval.
2.2.12. Contractor should build the wall in same standard way and the 
in all stages of it without lowering the quality of workmanship or the 
material. He should be able to work independently without receiving 
much guidance for every single step of building the wall or part on it.

3. **Other Requirement and Formalities**

3.1. The Embassy reserves the right to inspect the quality of construction and to 
order corrections or replacement, at no additional expense to the 
Government, of items determined as not meeting the minimum standards

3.2. The contractor shall clean up left over materials from the site(s) prior to the 
project’s being determined as complete. No trash or construction debris shall 
be left in the project area prior to acceptance by the Embassy.

3.3. The contractor shall make every reasonable effort to keep the job site clean 
during the duration of the project

3.4. Need to provide a warranty of 5 years for the constructional works and 
workmanship