



U.S. Consulate General Hyderabad

April 10, 2018

Dear Prospective Quoter:

SUBJECT: Solicitation Number Solicitation Number 19IN4718C0002-Q0002 – Perimeter wall repair.

The Consulate invites you to submit a quotation for repair and restoration work of the perimeter wall and associated metal fence at Hyderabad Consulate, India

The Consulate will hold a site visit at the Consulate, located at 1-8-323, Chiran Fort Lane, Begumpet, Secunderabad – 500 003, **on April 27, 2018 at 14:30 local time.**

Interested vendors should submit the names of their representatives attending this site visit to S. Sarveshnath Gupta tel. 91 40 4033-8449, fax 91 40 4033-8301, email shatavellisg@state.gov no later than **5:00pm on April 25, 2018 .**

Quotations are due to the US Consulate General, 15 1-8-323, Chiran Fort Lane, Begumpet, Secunderabad – 500 003, **by May 1, 2018, at 14:00 local time.** No quotation will be accepted after this time. Please submit your quotation in a sealed envelope marked for the Contracting Officer and “Quotation Enclosed.”

Sincerely,

Jennifer G. Chin
Contracting Officer

Scope of work for repair and restoration work of the perimeter wall and associated metal fence at Hyderabad Consulate, India

1.0 Brief Description of the Project

The current perimeter wall is deteriorating at several locations and needs to be repaired throughout the length of the wall.

US Consulate Hyderabad would like to hire the services of a civil contractor to repair the spalled cement mortar plaster and repair the same per specifications mentioned in the SOW below. At few locations metal fencing supports are also getting loose and needs to be re-strengthen / re-install.

Contractor is responsible to provide and install all the material on site in accordance with the local rules and regulations for installation, environment and safety, proper disposal of materials etc.

2.0 Site Visit

2.1 A site visit will be arranged for all the prospective bidders for this project to obtain an overview of the project and to understand the existing site conditions to prepare them for proper planning and facilitate them for bidding.

Contractors are advised to thoroughly go through the solicitation and come prepared with possible queries, if so required during the site visit. The prospective bidders are also to provide in writing possible queries to the Contracting Officer.

2.2 Contractor shall be informed that the building is functional through our the duration of the project and hence workers working on the project are expected to remain in discipline and do not spread over large area. All the material required for working of the project shall be confined to a phase presently been worked upon and or in the storage area.

Contractor shall be provided with potable water and electricity at one point by the consulate and no cost. Any distribution from that point shall be contractor responsibility.

2.3 Abbreviations

CO	Contracting Officer.
COR	Contracting Officer Representative.
ASTM	American Society for Testing and Materials.
PCC	Plain Cement Concrete.
RCC	Reinforced Cement Concrete.
QC	Quality Control
QMP	Quality Management Program
QA	Quality Assurance
USG	United States Government
MS	Mild Steel
GI	Galvanized Iron.
PUF	Poly Urethane Foam.

IS	Indian Standard Codes
ISI	Indian Standard Institute.
DP	Double Pole

3.0 Scope of Services

Part - I

a. Civil Work – Inspection for the loose and spalled cement plaster.

- i. Contractor shall inspect the condition of the cement plaster on the brick wall by tap and break method to understand the extent of the damage area on the existing brick perimeter wall.
- ii. Contractor shall mark all the areas identified to receive the repair treatment and shall get it approved from the maintenance supervisor on site.

b. Metal Fencing – Support Poles Inspection

- i. Contractor shall inspect all the metal poles supporting the metal fence on top of the wall for their stability and sturdiness.
- ii. All identified loose metal poles shall be shown to the maintenance supervisor for his reference and approval for the re-strengthening.

c. Repair of the deteriorated area.

- i. Once approved and measured by the maintenance supervisor contractor shall start patch repair work and re-strengthening as specified in the scope of work below.

d. Submittals:

Contractor shall prepare and submit to the COR following documents at different stages of the project:

- i. Cost loaded construction schedule.
- ii. Construction submittals – shop drawings with location of the spalled cement plaster area to be repaired and metal support bars to be re-strengthened on the perimeter wall.
- iii. Minutes of Meetings with CO / COR.
- iv. Shipping information for the construction material.
- v. Safety and accident reporting, if any on site.
- vi. Work progress reports.

e. **Project Schedule:**

Contractor shall submit a baseline schedule followed by monthly schedules which take into account the practical reality of the site, recovery schedules, one-week look ahead linked to the original/ monthly schedule to the CO for the purpose of review before commencement of any work.

4.0 **Scope of Work**

The scope of this project is to inspect and repair the cement sand mortar plaster on the wall and metal post supporting the metal fence on the perimeter wall. Works shall be carried out in phases. There is approximately 5,000.00 square feet of the area needs to be repaired.

Contractor shall get prior approval on all the materials required for installation in the current scope.

Contractors are advised in their own interest or interest of their workers safety to verify any and all underground services from city before excavating the site for installation of the chain link fence.

Contractor will be completely responsible to provide safe work environment for his workers safety and wellbeing. Under no circumstance USG be held responsible for any mishap or incident on the site.

4.1.1 **Civil Work – Inspection and Repair of the loose and spalled cement plaster.**

4.1.1.1 At present there are many visible spots on the wall where the cement plaster is coming out and is spalling.

- Contractor has to take out all the spalled concrete and shall assess the condition of the rest of the plaster on the wall with the help of a 2.5 Kg hammer and tap method.
- All the areas identified for damaged / weak cement sand mortar plaster shall be marked and shown to the maintenance supervisor for his reference and approval.
- Contractor shall get all the affected areas measured in presence of the maintenance supervisor and only then can proceed with the repairs of the same.

4.1.1.2 Contractor shall use metal wire brush to scrap all the old mortar, dust and laitance layers from the top exposed surface of the brick work.

- All the area to be prepared to receive the repair work shall be treated with a bonding agent from Dr. Fixit or equivalent brand.
- Contractor shall provide and install base layer of cement and coarse aggregate in the ration 1:3.

- In semi dry condition, keys shall be formed on the base coat to catch the top finish surface coat.
- Upon complete drying of the base coat, final coat of cement and clean sand shall be put on the base coat. The finishing coat shall comprise of cement and sand in the ratio of 1:4.
- Depending on the weather conditions, curing of the repairs work shall be done.
- Contractor shall follow above steps to repair all the affected areas.

4.1.1.3 Upon complete drying, contractor shall do the painting of the entire wall with one coat of the base coat and two coats of top coats per below specifications.

Paint perimeter wall of compound complete with metal grill from inside only as per the following scope of work and attached standard specification for exterior painting. Contractor should use ACE paint of 'ASIAN' make for wall painting and "Lead Free" Enamel Paint for all metal work. Shade of the paint will be shared at the time of contractors walk through. Contractors are advised to see the actual work during walk through. The approximate length of the boundary wall to be painted is 2000 linear feet. The height of wall is on an average 6'-6" and grill is 18".

- The contractor shall provide material and paint boundary wall with minimum two coats of paint including metal grills. Metal grill to be painted from both the sides and wall only from inside. Contractor shall provide coat of cement primer on wall before painting.
- The metal work shall be painted with lead free enamel paint of black color. The contractor shall provide coat of metal primer on metal work where ever is required prior to painting.
- The contractor should wash entire area/surface to be painted prior to start painting work.
- The contractor shall remove ground soil at least 4" at the bottom of wall from both sides for painting the wall and fill it back after repairing /painting.
- The contractor should remove all loose/peeling paint, mildew, fungus with wire brush and clean surfaces of dust, dirt, oil, grease etc. before painting.
- The contractor shall remove any tree roots from exterior surfaces and seal the holes with Wediseals.

4.1.2 **Metal Fencing – Support Poles Inspection**

- Contractor shall physically check all the metal support bars for the fence which are installed or are supported by the masonry perimeter wall.

- All supporting metal bars found loose shall be re-grouted / anchored or shall be plate welded through and through the wall from both sides to provide it more strength.

5.0 **Site Preparation**

Before work is initiated, the crew shall identify the limits of work, establish work zones, and install appropriate safety fencing, temporary chain link fencing, barricades, and signage, if needed. Work zones shall be clearly demarcated and areas for staging and stockpiling contaminated and non-contaminated soil shall be identified.

Contractor shall be allocated an area for as a laydown area for his tools and tackles, on the compound.

Contractor will be responsible for the safety and security of his tools and tackles and USG under no circumstances shall be held responsible for any misplacement or theft of any of the tools and tackles from the laydown area.

6.0 **Working Hours**

Working hours shall be 10 hours each day and six days a week (Monday to Saturday). The COR may, upon request and if circumstances permit, approve late hours and/or work on weekends / holidays. There shall be no cost incurred to the USG for any additional time provided to the contractor upon his request. A minimum of 24 hours advance notice of intent to request other hours shall be given to the CO.

7.0 **Quality Assurance and Quality Control**

7.1 Introduction. A principal factor of performance on a project is the Contractor's control of the quality of workmanship. The Contractor shall establish and maintain a project-specific Quality Management Program (QMP) which defines and implements a quality system. The quality system is a documented organizational process which describes responsibilities, procedures, and resources for providing quality control and quality assurance on a project. Effectiveness of the QMP is achieved through adequate planning, forceful direction, and checking in the sense of measurement and evaluation. The QMP applies to the control of quality throughout all areas of contract performance.

7.2 Quality Management Program the Contractor's QMP shall be Contracting Officer Representative (COR)-approved to provide employees, consultants, and/or joint-venture partners with established, uniform procedures for production of project data and documents throughout the construction process. Principal functions of the QMP are the following:

7.3 Quality Control (QC): Operational techniques and activities that are used to fulfill requirements for construction quality.

- 7.4 Quality Assurance (QA): Documentation of planned and systematic actions required to provide confidence that construction services provided are based on project requirements and satisfy stated requirements for quality.
- 7.5 Audits After award of the Contract, the Government may perform audits of the Contractor's QMP to periodically assess conformance with the QMP in accordance with the provisions of Section E of the contract. Disapproval of the program, or major portions, may be because for a delay in progress of the project's development or, in some cases, withholding acceptance of the Contractor's performed services. The Government may examine the Contractor's existing quality system prior to award of this contract as part of a pre-contract assessment, in order to determine the ability of the Contractor to satisfy the "quality" requirements of this contract.
- 7.6 Agreement on Quality Assurance: The Contractor shall develop a clear understanding with all his consultants on quality assurance matters for which the contractor are responsible, and the quality assurance program of the contractor shall be integrated with that of the Contractor of record.
- 7.7 QMP Submittal Requirements: The QMP shall be structured and developed to include the following minimum requirements:
- 7.8 Organizational Structure: The Contractor shall define and submit a QMP organizational structure within 15 days of contract award, including charts and a description of responsibilities of key persons who will perform the services. Persons responsible for interface with the Government, including the security manager and QMP Manager must be identified. A separate list should also include all team members, including consultants with telephone and email addresses.
- 7.9 In addition to the submittal of a Quality management Plan within Fifteen (15) calendar days after contract award, the Contractor shall also submit a preliminary Quality Management Program as part of their proposal.
- 7.10 Quality Policy: The Contractor shall have a stated corporate quality policy. This policy shall be consistent with the Contractor's quality policy in the QMP. Necessary measures shall be taken by the Contractor to ensure that the corporate quality policy is understood, implemented, and maintained by all employees of the Contractor and the Contractor's subcontractors.
- 7.11 Building Standards Construction must comply with the building codes and standards as detailed within the project drawings and specifications. Inconsistencies among codes and standards shall be brought in writing to the attention of the COR. The COR will resolve any inconsistencies.
- 7.12 Other Procedures Other procedures shall address construction management, procurement activities, construction management, quality records, and audits.

- 7.13 Security and Communications Interface: The Contractor's QMP shall provide for integration of security and communications requirements into the project.
- 7.14 Checking, Coordinating, and Integrating Drawings Quality control procedures shall be established to ensure individual drawings and other documentation have been checked and that all documentation, including that of the supporting disciplines (e.g., civil, structural, mechanical, electrical) have been coordinated and integrated. Deficiencies, ambiguities, conflicts, and inconsistencies shall be corrected prior to construction. Similar procedures shall be established to ensure that work in place complies with code requirements without the need for the USG to identify defects and initiate corrective action.
- 7.15 Document Control: The QMP shall ensure that documents, including subsequent changes, will be reviewed for adequacy, approved for release by authorized personnel, and properly conveyed to the Government. Persons responsible for reviewing, approving, and releasing new and revised documents shall be identified.
- 7.16 Corrective Action: The QMP shall clearly define responsibilities and procedures for corrective action in the event that deficiencies in D/B services or resulting deliverables are found to exist.
- 7.17 QMP Reporting: The Contractor shall prepare a sample Quality Assurance (QA) Report to be submitted as part of the solicitation package this sample report shall be updated and submitted with 15 calendar days from contract award. This report shall identify the QMP procedures used to review drawings and data for these submissions identifying steps taken to coordinate all drawings and documents provided by the Government and shall show contractors coordination with the subcontractors. The report shall include: 1) QC Status of the project include evidence of QC effort by inclusion of notes, comments, dialogue and discussion among and between disciplines of QC input and adjudication; 2) Significant Program Problems and their solutions/corrective actions; 3) Organization and Key Personnel Changes to be submitted within 5 working days in advance of the proposed change; 4) Certification of completion of QMP procedures and submission completeness; 5) Construction Documents Compliance Letter for the construction works.
- 7.18 The Contractor shall be responsible for all materials delivered and work performed until final completion and acceptance of the entire work, except for any completed unit of work, which may have been accepted in writing under the contract.

8.0 Substantial Completion

Definitions.

- 8.1. "Substantial Completion" means the stage in the progress of the work as determined and certified by the Contracting Officer or Contracting Officer's Representative in writing to the Contractor, on which the work or a portion thereof designated by the Government is sufficiently complete and satisfactory, in accordance with the requirements of the Contract Documents, that it may be occupied or utilized for the purpose for which it is intended, and only minor items such as touch-up, adjustments, and minor replacements or

installations remain to be completed or corrected which (1) do not interfere with the intended occupancy or utilization of the work, and (2) can be completed or corrected within the time period required for final completion.

8.1.1 "Date of Substantial Completion." means the date determined by the Contracting Officer or Contracting Officer's Representative of which substantial completion of the work has been achieved.

8.1.2 Request for Substantial Completion Inspection:

The Contractor shall give the COR at least 15 days advance written notice of the date the work will be substantially completed and ready for inspection and tests. The inspection and tests will be started not later than the date specified in the aforesaid notice unless the CO determines that the work is not ready for inspection and so informs the Contractor.

8.1.3 Use and Possession upon Substantial Completion:

The Government shall have the right to take possession of and use the work upon substantial completion thereof. Upon notice by the Contractor that the work is substantially complete and verification thereof on the basis of an inspection by the CO and any required tests, the CO shall furnish the Contractor a Certificate of Substantial Completion, accompanied by the Schedule of Defects enumerating items of work remaining to be performed, completed or corrected before final completion and acceptance. However, failure of the CO to list any item of work shall not relieve the Contractor of responsibility for complying with the terms of the contract. The Government's possession or use upon substantial completion shall not be deemed an acceptance of any work under the contract.

9.0 **Project Closeout**

9.1 Upon completion of the work on site, the contractor's site superintendent shall review all activities and walk the project area with the Embassy / consulate personnel to ensure that the Embassy is satisfied and all work items are acceptable. If any items are not completed, they shall be addressed and completed immediately.

The contractor shall ensure that, upon demobilization per schedule, the site is left in a clean and orderly appearance equal to or better than prior to start of work.

The contractor shall compile record documents as the work progresses and maintain a copy of these documents as part of the quality control program. At the conclusion of the work, the contractor shall submit closure documentation and warrantee of all the material installed (duly transferred in favor of USG) to the Embassy.

10. **Final Completion and Acceptance**

Definitions

(a) "Final completion and acceptance" means the stage in the progress of the work as determined by the COR and confirmed in writing to the Contractor, on which all work required under the contract has been completed in a satisfactory manner in accordance

with the requirements thereof, subject to the discovery of defects after final completion, and except for items specifically excluded in the notice of final acceptance.

(b) The "date of final completion and acceptance" means the date determined by the CO as of which final completion of the work has been achieved, as indicated by written notice to the Contractor.

(c) Request for Final Inspection and Tests

The Contractor shall give the COR at least 15 days advance written notice of the date the work will be fully completed and ready for final inspection and tests. Final inspection and tests will be started not later than the date specified in the aforesaid notice unless the CO determines that the work is not ready for final inspection and so informs the Contractor.

(d) Final Acceptance

Upon (a) satisfactory completion of all required tests, (b) verification by the COR on the basis of a final inspection that all items listed in the Schedule of Defects have been completed or corrected and that the work is finally complete, subject to the discovery of defects after final completion, and (c) submittal by the Contractor of all documents including contractor close-out documents, and other items required upon completion of the work, including a final request for payment, and if the CO is satisfied that the work under the contract is complete and the contract has been fully performed, with the exception of continuing obligations there under, the COR shall issue to the Contractor a notice of final acceptance and process final payment as required by the contract.

11 As Built Documents

After final completion of the work, but before final acceptance thereof, the Contractor shall provide complete sets of "as-built" drawings, based upon the record set of drawings, marked to show the details of construction as actually accomplished, and record shop drawings and other submittals, in the number and form as required by the specifications. "As built" documents shall be provided in the same form, as construction documents.

12.0 General Notes:

Contractor should follow the following specifications wherever required:

- a. Contractor shall use Mechanical Mixer to mix the concrete or use RMC (Ready Mix Concrete) for all purposes along with needle vibrator.
- b. Contractor shall provide warrantee certificate for at least 5 years against the material performance and work performance. In case of any such event contractor is liable to replace and install the same at his own cost.
- c. Following are the common specifications for the project
 - All base plaster work shall be done in 1:4 cement mortar (1 cement: 3 stone dust).
 - All finished plaster work shall be done in 1:4 cement mortar (1 cement : 4 sand).
 - P C C should be in the ratio 1: 4: 8 (1 cement: 4 stone dust: 8 stone aggregate)

- R C C should be in the ratio 1: 1 ½: 3 (1 cement: 1 ½ stone dust: 3 stone aggregate (½” size)).
- d. Contractor will arrange for a dedicated full time engineer/supervisor for the entire duration of the project failing which leads to termination of the project.
- e. Contractor will provide test certificate for the concrete used in casting the RCC enclosure around tank and for trench work. Test shall be done at reputed test lab locally.
- f. Contractor will inform the COR of the project regarding delivery of any material to the site for at least two days prior to delivery, so as to get security approval and inspection of the same can be arranged.
- g. Contractor should always keep the site clean from any kind of debris. At the end of the day the site should be a completely protected/barricaded. Reflective signs shall be installed after end of each day around entire site.
- h. Contractor will transfer all guarantee cards provide by the manufacturer for the material installed in the name of American Embassy.
- i. Contractor shall inform CO through COR immediately in case some deviation is there from the actual scope or any time delay is there from the actual schedule submitted at the time of commencement of the project. In such case contractor shall submit in writing cause of delay to COR and after approval of the same revised schedule shall be submitted with COR.
- j. Contractor shall provide all shuttering and other necessary material to complete the job in satisfactory manner.
- k. Contractor will refer IS 456 (latest) for all the RCC work and shuttering etc.

13.0 Inspection of Construction

Definition: "Work" includes, but is not limited to, materials, workmanship, and manufacture and fabrication of components.

- a. The Contractor shall maintain an adequate inspection system and perform such inspections as will ensure that the work performed under the contract conforms to contract requirements. The Contractor shall maintain complete inspection records and make them available to the Government. All work shall be conducted under the general direction of the Contracting Officer and is subject to Government inspection and test at all places and at all reasonable times before acceptance to ensure strict compliance with the terms of the contract.
- b. Government inspections and tests are for the sole benefit of the Government and do not
 - Relieve the Contractor of responsibility for providing adequate quality control measures;
 - Relieve the Contractor of responsibility for damage to or loss of the material before acceptance.
 - Constitute or imply acceptance; or

- Affect the continuing rights of the Government after acceptance of the completed work under paragraph (i) of this section.
- c. The presence or absence of a Government inspector does not relieve the Contractor from any contract requirement, nor is the inspector authorized to change any term or condition of the specification without the Contracting Officer's written authorization.
- d. The Contractor shall promptly furnish, at no increase in contract price, all facilities, labor, and material reasonably needed for performing such safe and convenient inspections and tests as may be required by the Contracting Officer. The Government may charge to the Contractor any additional cost of inspection or test when work is not ready at the time specified by the Contractor for inspection or test, or when prior rejection makes re-inspection or retest necessary. The Government shall perform all inspections and tests in a manner that will not unnecessarily delay the work. Special, full size, and performance tests shall be performed as described in the contract.
- e. The Contractor shall, without charge, replace or correct work found by the Government not to conform to contract requirements, unless in the public interest the Government consents to accept the work with an appropriate adjustment in contract price. The Contractor shall promptly segregate and remove rejected material from the premises.
- f. If the Contractor does not promptly replace or correct rejected work, the Government may -
By contract or otherwise, replace or correct the work and charge the cost to the Contractor; or
Terminate for default the Contractor's right to proceed.
- g. If, before acceptance of the entire work, the Government decides to examine already completed work by removing it or tearing it out, the Contractor, on request, shall promptly furnish all necessary facilities, labor, and material. If the work is found to be defective or non-conforming in any material respect due to the fault of the Contractor or its subcontractors, the Contractor shall defray the expenses of the examination and of satisfactory reconstruction. However, if the work is found to meet contract requirements, the Contracting Officer shall make an equitable adjustment for the additional services involved in the examination and reconstruction, including, if completion of the work was thereby delayed, an extension of time.
- h. Unless otherwise specified in the contract, the Government shall accept, as promptly as practicable after completion and inspection, all work required by the contract or that portion of the work the Contracting Officer determines can be accepted separately. Acceptance shall be final and conclusive except for latent defects, fraud, gross mistakes amounting to fraud, or the Government's rights under any warranty or guarantee.

14.0 **Accident Prevention**

- a. General – The contractor shall be fully responsible for any and all mishaps or incidents which may occur on site due to safety lapses or otherwise. The Contractor shall provide and maintain work environments and procedures which will (1) safeguard the public, Government personnel, property, materials, supplies, and equipment exposed to Contractor operations and activities; (2) avoid interruptions of Government operation and delays in project completion dates; and (3) control costs in the performance of this contract. For these purposes, the Contractor shall -
 - Provide appropriate safety barricades, signs and signal lights;

- Comply with the standards issued by any local government authority having jurisdiction over occupational health and safety issues; and
 - Ensure that any additional measures the Contracting Officer determines to be reasonably necessary for this purpose are taken.
- b. Safety Manager - (1) The Contractor shall designate a safety manager for this contract. The safety manager shall be responsible for coordination of safety procedures, and monitoring of those aspects of the work that pose the greatest safety risks. (2) If, during the performance of this contract, the contractor encounters hazardous materials (including asbestos-containing materials, etc), the contractor shall immediately report the situation to the COR.
- (c) Records - The Contractor shall maintain an accurate record of exposure data on all accidents incident to work performed under this contract resulting in death, traumatic injury, occupational disease, or damage to or theft or loss of property, materials, supplies, or equipment. The Contractor shall report this data in the manner prescribed by the COR.
- (d) Subcontracts - The Contractor shall be responsible for its subcontractors' compliance with this clause.
- (e) Written Program - Before commencing work, the Contractor shall --
(1) Submit a written proposal for implementing this clause; and
(2) Meet with the COR to discuss and develop a mutual understanding relative to administration of the overall safety program.
- (f) Notification - The COR will notify the Contractor of any non-compliance with these requirements and the corrective actions required. This notice, when delivered to the Contractor or the Contractor's representative at site, shall be deemed sufficient notice of the non-compliance and corrective action required. After receiving the notice, the Contractor shall immediately take corrective action. If the Contractor fails or refuses to promptly take corrective action, the Contracting Officer may issue an order suspending all or part of the work until satisfactory corrective action has been taken. The Contractor shall not be entitled to any equitable adjustment of the contract price or extension of the performance schedule on any suspension of work issued under this clause.

15.0 Substitutions

Contractor is supposed to confirm the availability of all the material required in the project initially and get them approved by COR.

Any material which is not available or discontinued by the manufacturer shall be brought in to notice of the COR ASAP.

The Contractor must receive approval in writing from the COR. Any substitution request shall be accompanied by sufficient information to permit evaluation by the Government, including but not limited to the reasons for the proposed substitution and data concerning the design, appearance, performance, composition, and relative cost of the proposed substitute.

Contractor shall not bring or use any product without prior approval from COR on the site.

Requests for substitutions shall be made in a timely manner to permit adequate evaluation by the Government. If, in the COR's opinion, the use of such substitute items is not in the best interests of the Government, the Contractor shall obtain the items originally specified with no adjustment in the contract price or completion date.

Final approval on delivery - Acceptance or approval of proposed substitutions under the contract is conditioned upon approval of items delivered at the site or approval by sample. Approval by sample shall not limit the Government's right to reject material after delivery to the site if the material does not conform to the approved sample in all material respects.

15.1 "Or-Equal Clause"

References in the specifications and drawings, to materials, products or equipment by trade name, make, or catalog number, or to specific processes, shall be regarded as establishing a standard of quality and shall not be construed as limiting competition. The Contractor may propose for approval or rejection by the COR the substitution of any material, product, equipment or process that the Contractor believes to be equal to or better than that named in the specifications and drawings, unless otherwise specifically provided in this contract.

16. **Material Specifications for reference**

Angle iron/Rib Bars – Tata make or equivalent.

Bricks – All bricks shall be well baked and of 1st class quality.

Cement – OPC 53 grade Cement of reputed company.

Coarse sand – Good quality stone dust - Fine aggregates generally consist of natural sand or crushed stone with most particles smaller than 5 mm (0.2 in.).

Stone Aggregate: Per IS 456 – 1978 for reinforced concrete works, aggregates having a nominal size of 20mm are generally considered satisfactory.

Fine Sand – Salt free washed fine sand

Anchors Fisher/ Hilti / equivalent.

Welding Rods ESAB - 6013

Professional workers and certified welders in good workmanship and neat manner are required on the site and shall carry the work to the highest standard in the industry.

Contractor shall take every measure for fire and life safety matters.

Note: All welding wherever required shall be done as per Indian Standards by professional certified welders, by edge cutting, preparation of 'V' grooves at the ends with the help of grinders, keeping 2.5 mm gap for weld filling between two pipes, welding first root run with ISI approved quality welding electrodes, grinding root run, clean welded surface, dye penetration test butt joints and final finish weld run with 3.15 mm 6013 welding electrodes.

All metal support work to be painted with one coat of anti-rust metal primer and two coats of synthetic enamel paint. Only stainless steel nut bolts and washers are to be used.

Warranty: The entire installation work will be warranted for the defect liability for a minimum period of 1 year from the date of final commissioning.

17.0 Payment Clause

This is a firm fixed cost contract with details of payment request mentioned below

Payment by EFT within 30 days of delivery & Submit of proper invoice

Please mention our order number in all your correspondence

Each request for payment which shall be made no more frequently than monthly, unless otherwise provided herein, shall cover the value of labor and material's completed and in place, including a prorated portion of overhead and profit.

Invoices shall be addressed to:

Embassy of American Consulate General,
Attn: B&F Section,
1-8-323, Chiran Fort Lane,
Begumpet Hyderabad- 500 003