August 15, 2022

Valued Vendor

US Embassy Cairo would like to get a price quotation with the minimum delivery time for the following or equal Products(s):

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<td>Consular ADA Elevator Replacement as per attached SOW</td>
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Product will be delivered to our below address (Please specify inland freight costs / If any) and payment will be done according to the Dept of State regulations via Government Purchase Order (Net 30 Terms).

**Delivery Address:**
American Embassy  
8 Kamal El Din Salah St.  
Garden City, Cairo Egypt.  
Tel: +20 (122) 218-6445

According to the updated regulation of the US Government related to the NDAA policy, we need to have a confirmation from all vendors concerning the NDAA compliance in order to continue doing business with them. **Therefore, please confirm by signing and stamping the attached document that you do NOT provide, or use prohibited (covered) telecom equipment or service related to any business with the US Government.**

The definition of Covered or Prohibited technologies are telecommunications equipment or services includes all telecommunications equipment or services produced and provided by Huawei Technologies Company or ZTE Corporation, and video surveillance and telecommunications equipment or services produced and provided by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company, or any subsidiaries or affiliates of the five entities. Please see FAR 4.2101 for a complete definition. Let me know if you have any questions and waiting **to have your confirmation ASAP** in order to continue our business relationship.

Please be informed that you must, at time of award, have a VALID [SAM](https://www.sam.gov) Account.

**Offer Deadline:** **Aug 31, 2022 @ 1400 hrs CLT**

Thank you and please submit your offer to [CairoContracts@state.gov](mailto:CairoContracts@state.gov) as per each due date beside each RFQ. No offers will be accepted after the due date/time specified.

Respectfully Yours,

GSO/PROC  
American Embassy, Cairo  
Email: [CairoContracts@state.gov](mailto:CairoContracts@state.gov)
SECTION 011005
CONSTRUCTION EXECUTION AND COORDINATION

1.1 SUBMITTALS

A. The Contractor shall submit, in accordance with Section 013305, Construction Submittals, the following:
   1. Organization Chart: Thirty (30) days prior to Site mobilization, submit Project organization charts to the COR.
   2. Project Execution Schedule – See Section 013205 Project Scheduling

1.2 ON-SITE STAFF REQUIREMENTS

A. The Contractor shall assign a full-time Project Manager, and one Engineer/Adjuster, to be on-site full time, with a minimum of ten (10) years of experience on similar size/complexity projects. The Project Manager shall:
   1. Be employed by the Original Equipment Manufacturer
   2. Provide a professional level of project execution management
   3. Speak fluent English to effectively liaison between the COR and site
   4. Resolve complex design and engineering issues
   5. Not be involved in routine project execution at the construction and assembly level

B. All Staff shall be qualified for the work performed as documented by certifications, licenses, and permits.

1.3 USE OF PROJECT SITE

A. Project Site boundaries and any requirements/restrictions pertaining to the access and utilization of the site will be discussed with the potential contractors on site during the pre-bid/proposal conference. Minutes of the pre-bid/proposal conference will become part of the contract.

B. The Contractor shall perform work in accordance with the Construction Security Plan and discussions during the pre-bid/proposal conference.

C. The Contractor shall ensure that surplus, waste, and rejected material is promptly removed from the Project Site and disposed of according to local law.

D. Protection of Adjacent Properties: The Contractor shall prevent and repair any damage to surrounding and adjacent properties arising from performance of the work.
E. The Government reserves the right to place and install equipment as necessary in completed areas of the building and to occupy such completed areas prior to Substantial Completion.

1.4 PROJECT SITE HOURS OF OPERATIONS

A. Unless otherwise agreed upon in writing, work shall be performed only during the days and hours specified below.
   1. The Contractor shall plan execution of the work based on a 6-day workweek excluding local holidays.
   2. Working hours shall be a maximum of 10 hours per day, exclusive of screening time, unless restricted by local custom for one or more given days of the week. In each case, the Contractor shall become familiar with local customs and ensure all Project execution actions are in accordance.
   3. The building is occupied. Deviating work hours are to be used for demolition or other disruptive work. Disruptive work may be defined as 85 decibels or above. Deviating work hours are 6:00PM to 5:00AM.
   4. Unless otherwise modified in writing by local permit, the working hours for this Project are as specified above.

B. Deliveries - Deliveries of materials to the project are restricted. The Contractor shall refer and abide by local regulations for delivery restrictions.

C. Local Holidays - The Contractor shall observe, validate, and plan the work around local national holidays during the construction period. Should any of the holidays fall on a local non-workday, or local custom weekend day, the Contractor shall exercise due diligence to ensure local customs and appropriate compensation issues are addressed.

D. U.S. Holidays - Observance of Legal Holidays and Administrative Leave (Note: Government Supervision requirements during a holiday are considered overtime and shall be compensated by the Contractor accordingly).

E. Excepted Operations:
The only work permitted outside of work hours or days specified above will be due to special circumstances. The Contractor shall provide written request to the COR at least one business day in advance of such operations and obtain the written acceptance of the COR prior to scheduling any such work.
1.5 GENERAL

A. The Contractor shall remove and replace workmanship that is found non-compliant with the contract specifications and general terms and conditions at no additional cost to the Government.

B. Except as otherwise indicated, the Contractor shall comply with the following general requirements for the installation and coordination of work:
   1. Require each installer to inspect substrates and report unsatisfactory installation conditions.
   2. Inspect delivered materials, fabrications, and equipment prior to installation and reject damaged or defective items.
   3. Comply with manufacturer’s instructions for each installation.

1.6 COORDINATION MEETINGS

A. Pre-Construction Conference:
The COR will conduct a pre-construction conference on or near the date of NTP Construction and thirty (30) calendar days prior to the Contractor’s mobilization to the Project Site. Agenda items will include a review of the general plans, conditions, procedures, and requirements as necessary for the effective scheduling and prosecution of the construction work. Parties will review security and material delivery requirements, personnel assigned, and Contract communication procedures as established for the Project.

B. Start-up meeting.
A start-up meeting will be held once all the materials have arrived onsite. Required attendees are all contractor team members including the foreman and mechanics performing daily project duties, the OBO Elevator Management Program representative, The Facilities Manager, and others that Post management feels are required to be in attendance. Agenda items will include manpower, safety, security, conduct, dress code, out of service schedule for each building, missing or wrong equipment, and Q&A time for any outstanding items.

C. Construction Coordination Meetings. The Contractor and the COR will hold weekly construction coordination meetings to discuss schedule and status of outstanding issues.
The weekly construction coordination meeting shall have a contractor prepared agenda as follows:
   1. Security
   2. Safety
   3. Quality Control
   4. Project Execution Schedule
   5. Submittal Register
   6. Requests For Information (RFI)
1.7 GOVERNMENT-FURNISHED ITEMS

A. As delineated in Contract Section C, the Government may provide equipment or material for either Government installation or Contractor installation, designated as Government Furnished Government Installed and Government Furnished Contractor Installed, respectively.

B. The Contractor shall support the infrastructure for Government-furnished items. The Contractor shall provide and install conduits, raceways, cables, terminal boxes, and source power per the contract documents.

C. The Contractor shall advise the USG in writing, a minimum of 45 days in advance of the installation start of all USG furnished items.
SECTION 013205
PROJECT SCHEDULING

1.1 PURPOSES of the Project Execution Schedule

A. To provide a complete information and reference plan of execution for project administration, materials submittal preparation, USG submittal review, procurement, shipping, construction and close-out requirements.

B. To assure coordination of the Contract Work between the Contractor and the subcontractors, material suppliers, and all other parties associated with the project.

C. To record and report actual performance progress.

D. To be the basis for evaluation of the Work completed and the preparation of the Contractor’s monthly payment application.

1.2 SUBMITTALS

A. Submit the following as prescribed above:

1. Baseline Project Execution Schedule Update (BPES)
   To COR 15 days after contract award.

2. Project Execution Schedule (PES) Updates
   a. Submit to the COR monthly—with the Payment Request.
   b. Acceptance of the PES Update is a monthly prerequisite to approving the Contractor’s Pay Application.
   c. Weekly 14 day look ahead plan.

1.3 GOVERNMENT REVIEW PROCESS

A. After the COR receives the schedule update data, scheduling software file and pay application, the USG shall review the schedule.

B. The COR will review the updated PES to verify the accuracy of the on-site work progress—activities started, completed, and on-going and their respective completion percentages and process pay application accordingly.

1.4 SCHEDULING SOFTWARE

A. The scheduling software shall be Microsoft Project, or equivalent approved in advance by COR.
1.5 SCHEDULE DEVELOPMENT

A. The detailed Project Execution Schedule (PES) will include tasks and milestones representing the entire Contract Scope of Work.

B. Required Milestones – those below must appear; additional milestones by Contractor or PD/COR may be added
   1. Contract Award
   2. Construction Document Submittal
   3. Construction Document Back-check
   4. NTP-Construction
   5. Mobilization and demobilization
   6. O&M Manual Submission
   7. Project Substantial Completion
   8. Safety testing and inspections
   9. Final Acceptance

C. Provide sufficient detail to show a logical Critical Path beginning with the first schedule activity and ending with the final schedule activity.

D. All activities except first and last, shall have at least one predecessor and once successor relationship link.

E. The PES shall be cost-loaded. The Total Baseline Cost of the PES shall coincide with the Total Contract Amount excluding VATs.
   1. Front end cost loading is not to be practiced and where observed the PD or COR can reduce the approved payment amount and ask for a redistribution of the cost.
   2. Assign a cost value to each construction work activity
   3. Cost loading activities defining
      a. Design
      b. Mobilization
      c. Construction
      d. Major Equipment/ Material Delivery
      e. Demobilization

1.6 PAYMENT APPLICATION

A. Approval is dependent on:
   1. Percent complete verification of all progressed activities
   2. Determination of the Actual Cost from the approved PES Update for the end of the current month

END OF SECTION
SECTION 013305
CONSTRUCTION SUBMITTALS

1.1 GENERAL

A. The Contractor shall transmit in English all construction submittals to the COR.

B. The Contractor shall review all Contract documents and Project requirements and generate a complete list of deliverables for submittal. The Contractor shall ensure all deliverables are considered in the Project Execution Plan.

C. Submittal Register: The Contractor shall develop a submittal register encompassing Division 1 and the Contract Technical Specifications and submit it within 21 days after the NTP. Submittals encompass the Division 1 and Contract Technical Specifications to include:

1. Product Data
   a. Refer to Contract Technical Specifications for information regarding technical requirements for product data.
   b. The Contractor shall collect and submit product data for manufactured material required in each unit of work, usually as defined by related technical sections of the Contract Specifications. Where selection of related products is reflected directly in the preparation of shop drawings, the Contractor shall submit product data sufficiently in advance of the submittal for acceptance and prior to the drawings’ completion.
   c. The Contractor shall include manufacturer's installation instructions, recommendations for handling, maintenance, protection, testing, start-up, and other procedures as may be applicable.
   d. Where product data must be custom-produced (not available as manufacturer's standard printed information), the Contractor shall submit as shop drawings in accordance with applicable requirements.

2. Shop Drawings

3. Field Samples

4. Administrative Submittals
   a. Submittals related to temporary facility layout and construction.
   b. General and special reports, including minutes of meetings, safety and accident reports, shipping logs, security regulation compliance reports, etc.
   c. Progress reports, including regular submission of the RFI log, submittal register, manpower requirements, project progress documentation, etc.
   d. Inspection and test schedules and reports, including quality control documentation, related certifications of compliance, field samples,
surveys and measurements, and other field engineering submissions.

5. Closeout Submittals

D. Sample Transmittal Form. A sample Transmittal Form is provided as an attachment to this Section.

E. Substitutions for Materials or Products:
   1. Proposals for substitutions of materials or products required by the Contract construction specifications and drawings shall include a specific description of each substitution in writing and provide justification.
   2. Any submittals requesting a substitution shall be clearly marked.

1.2 GOVERNMENT SUBMITTAL REVIEW

A. The Government's review period for submittals is 14 calendar days following the Government's receipt of a submittal.

B. The Government’s acceptance of submittals reflects an acknowledgement that the submittal is in general compliance with the intent of the Contract documents. Acceptance by the Government will not:
   1. Permit any departure from the Contract requirements.
   2. Relieve the Contractor of the responsibility for patent or latent errors and omissions, including details, dimensions, material, etc.
   3. Authorize a departure from the details appearing on accepted construction specifications and drawings.

C. Submittal Disposition: As a result of review, COR will mark submittals as follows:
   1. ACCEPTED AS SUBMITTED (AS) or ACCEPTED AS NOTED (AN): Indicates there is no requirement for resubmittal, items require only Government recognition, submittal meets the intent of the Contract documents, and final acceptance will depend upon compliance.
   2. ACCEPTED FOR INFORMATION ONLY (IO): Indicates the submittal is accepted without waiving the requirement for compliance with the Contract Documents and final acceptance will depend upon compliance.
   3. REJECTED; RESUBMIT (RR): Indicates the submittal does not meet the Contract’s intent or corrections are required of the proposed work’s defects or deficiencies as represented by the submittal.

D. The Contractor shall not proceed with the purchase, fabrication, delivery, or other related execution of the work until acceptance is granted.

E. The Contractor shall not allow the use or evidence of rejected submittals where
work is in progress at the Project Site or elsewhere.
F. Correction of noted defects or deficiencies shall be resubmitted for the
   Government’s acceptance.
G. The Contractor shall bear all risk in the submittal-rejection-re-submittal cycle.
   Submittal rejection will not justify extension of Contract duration.
H. Failure of the USG to identify any deficiency does not relieve the
   contractor from fulfilling their contractual obligation.
MATERIAL/PRODUCT SUBSTITUTION REQUEST FORM

Date: ___

Project:

________________________________________

Contractor:

________________________________________

Within 30 days after the construction NTP, this formal request will be considered for substitution of products specified as minimum standard. After the end of this period, substitution requests will be considered only if the specified product or material is no longer available or deemed unsatisfactory for the intended function.

Specified Material/Product

________________________________________

Specification Division – Section

________________________________________

Specified Manufacturer/Origin

________________________________________

Proposed Substitution

________________________________________

Proposed Manufacturer/Origin

________________________________________

Proposed Supplier/Source

________________________________________

Attached hereto are the specification, data, performance documents and standard laboratory test results supporting the product substitution.

The following criteria has been taken into consideration
• The use of this material/product is applicable to this product in the prescribed location and will be warranted in the same manner as the specified product for a period of years, when applied and used as per the manufacturers guidelines.

• The substitution of this product will not affect the dimensions shown on the drawing in any way.

• This product substitution will not affect the work of other trades working on this product.

• This product will not affect the expected Commissioning Functional Performance Test results.

The advantages of incorporating the proposed substitution into this Project are as follows: __

______________________________________________________________

______________________________________________________________

______________________________________________________________

______________________________________________________________

Submitted By: 
____ of ____

END OF SECTION
SECTION 013525
CONSTRUCTION SAFETY AND OCCUPATIONAL HEALTH

1.1 RELATED DOCUMENTS


C. ANSI A10 Series Standards for Safety Requirements for Construction and Demolition.


E. NFPA 10, Standard for Portable Fire Extinguishers.

F. NFPA 70, National Electrical Code

1.2 SUBMITTALS

A. The Contractor shall submit the following:

1. A Construction Accident Prevention Plan (CAPP) prior to the beginning of any construction activity at the Project Site.


3. Material Safety Data Sheets (MSDS).

4. Accident Investigation Report: A report within 24 hours of each accident or mishap, except as otherwise indicated by requirements or governing regulations.

1.3 GENERAL

A. The contractor shall have a Full Time dedicated Safety & Health Program Manager on-site when any construction activity is planned. The Safety and Health Program Manager shall speak fluent English to effectively liaison between the COR and site, and shall not be involved in routine project execution.

B. For the duration of construction, the Contractor shall implement and manage a comprehensive safety and health program.
C. The COR, as the Government Contracting Officer’s Representative, reserves the right to suspend work when and where the Contractor's safety and health program is operating in an inadequate manner, has severe shortcomings, or is not in compliance with contractual requirements.

D. Acceptance by the COR will not relieve the Contractor of overall responsibility for compliance with the strict interpretation of all safety and health requirements of the Contract.

E. Accident Investigation:

The Contractor shall investigate and prepare a separate accident report for each accident resulting in lost time, disabling or fatal injuries, or damage to vehicles, property, materials, supplies, furniture, fixtures, and equipment. In each report, the Contractor shall include a statement of Contractor actions taken to prevent recurrence of accident.

F. Hazardous Materials: The Contractor shall test any material encountered suspected to contain hazardous substances and bring to the immediate attention of the COR.

G. Protective Clothing and Equipment: The Contractor shall issue personal protective clothing and equipment as required by EM 385-1-1.

H. Welding Safety Plan: The contractor shall submit a Welding Safety Plan for all welding work to the COR before the start of any welding activities.

I. Safety and Health Training: Tool Box Meetings: The Contractor shall conduct weekly safety meetings. The Contractor shall require attendance by all tradespersons, laborers, foremen, and supervisors at the Project Site, including those of separate contractors. The Contractor shall discuss current construction operations, analyze hazards, and communicate solutions.

J. Rolling Scaffolding: All rolling scaffolding needs to be part of a complete system from a single manufacturer.

K. Ladders: All ladders used on the construction site shall be fiberglass. No metal, aluminum or wood ladders are permitted on this project.

L. Signs shall be provided to give adequate warning and caution of hazards. All signs shall be visible at all times when the hazard or problem exists and shall be removed when the hazard or problem no longer exists. All employees shall be informed as to the meaning of the various signs used throughout the workplace and any special precautions that may be required.

1.4 CONSTRUCTION ACCIDENT PREVENTION PLAN (CAPP)
A. Prior to beginning work at the Project Site, the Contractor shall prepare and submit to the COR, a site-specific CAPP covering all activities for the Contractor and all subcontractors. The CAPP shall contain, at a minimum, the Contractor’s understanding of:

1. Management and Corporate Commitment: The Contractor shall include a certified statement in the introduction, executed by a senior officer of the construction firm having broad corporate authority, indicating full commitment to the accepted CAPP and the level of authority in assignment of responsibilities at the Project Site.

2. Name, qualifications, and duties of Safety & Health Program Manager.

3. The CAPP shall incorporate the requirements contained in the U.S. Army Corps of Engineers (USACE) Safety and Health Requirements Manual, EM 385-1-1.

4. Submit the Fall Protection and Prevention Plan with the CAPP, and update every six (6) months.

5. Hazardous Work Permits: The procedure for preparation and approval prior to proceeding with work deemed hazardous.


7. Location of facilities and procedures for emergency medical situations.

8. Emergency Plan to include: Escape procedures and routes, method of accounting for employees following emergency evacuation, means of reporting emergencies, and persons to be contacted for information or clarification.

9. Emergency Resources--Establish jointly with the Government, a list of telephone numbers and locations of ambulance, physician, hospital, fire, police and other sources of emergency assistance. The list shall be posted in several locations on the Project site.

1.5 SITE MAINTENANCE, PROTECTION, AND SANITATION

A. The Contractor shall maintain the site facilities in clean, sanitary, and safe operating conditions to the satisfaction of the COR.

B. The COR will conduct periodic site inspections to verify that the Contractor is maintaining good housekeeping practices.

C. Fire Protection:

1. The Contractor shall provide temporary portable fire extinguishers.

2. The Contractor shall prohibit smoking in the building.

3. During welding, cutting, and burning, the Contractor shall comply with NFPA 51B in areas of fire-hazard exposure. The Contractor shall provide stand-by fire-protection personnel and adequate supervision of operations.
D. First Aid Medical Facility Requirements:

1. The Contractor shall provide a first aid kit. A health care professional or competent first aid person shall evaluate and determine the fill contents of each kit.

END OF SECTION
SECTION 014010
CONTRACTOR QUALITY CONTROL

1.1 Quality Control

A. The Quality Control system used during the project construction phase must ensure that the facility meets the contract design, quality and functional standards. To this end the Contractor is required to establish, implement and maintain an effective Construction Quality Control (CQC) Plan. The CQC Plan shall cover all constructions operations both onsite and offsite, and shall be keyed to the proposed construction sequence (definable features of work).

B. The Construction Quality Control Plan shall include, as a minimum, all quality processes performed by the contractor, subcontractors, fabricators, suppliers, and purchasing agents. ISO 9001:2008 shall be used as a base line for developing the control processes identified in Part 3 (Execution) of this specification.

C. The Contractor is responsible for quality control and shall establish and maintain an effective quality control system. The quality control system shall be defined by the CQC Plan, which defines the Contractor’s quality policy, lines of authority and responsibility, QC personnel qualifications, and the procedures and organization necessary to produce a finished product that complies with the contract requirements.

D. The project manager and superintendents will be held accountable for the quality of work and are subject to removal at the direction of the PD/COR for failure to comply with quality requirements specified in the contract. The Contractor’s project manager and superintendents in this context shall mean the individuals with responsibility for the overall supervision of field activities for the project.

E. The Government will schedule performance audits during the construction phase to assess the Contractor’s performance against contract requirements and CQC Plan implementation. The

F. COR shall use the audit results to evaluate the completed work and progress made against the contract documents and project schedule when reviewing Contractor requests for progress payments.

1.2 Referenced/Related Documents

A. ISO 9000: 2008 Quality Management Systems requirements is a quality program document that the Contractor shall use to develop the CQC.

1.3 Submittals: The Contractor shall submit, in accordance with Section 013305, Construction Submittals the following:
A. Contractor’s Quality Control Plan (CQC Plan): The CQC Plan shall be submitted within thirty (30) calendar days after Contract Award. No work shall be undertaken before CQC Plan acceptance. The name, qualifications (in resume format), duties, responsibilities and authorities of each person assigned to a Quality Control (QC) function shall be submitted to the Government for review. The Government will reject personnel who are not qualified for the positions for which they have been proposed. Changes to QC organization staffing shall only be made after acceptance by the Government of the proposed changes.

B. The Contract shall submit a Quality Control Report (QCR) to the Government daily. Reporting shall begin on the first day the contractor’s forces arrive on site and shall continue until the contractor’s forces have completely demobilized. Daily reports shall be submitted by 8:00 the following morning and shall include, at a minimum, the information discussed in this section. The report format shall be accepted by the Government prior to use.

END OF SECTION
SECTION 015005
TEMPORARY UTILITIES

A. General:
   1. The Contractor shall connect to existing utilities for required services, where reasonably possible.

B. Temporary Water:
   1. Non-Potable Water for Construction Use.

C. Temporary Electricity:
   1. The Contractor shall design, install, maintain, and remove temporary electrical service and distribution systems. The Contractor shall comply with the requirements of NFPA 70, National Electrical Code 2014.

D. Temporary Lighting:
   1. The Contractor shall provide a combination of sufficient day lighting, general electrical lighting, and plug-in task lighting in every construction area to ensure the proper and adequate performance of work, reading of signs, inspection, testing, and other need-to-see requirements.

END OF SECTION
SECTION 017705
CLOSEOUT PROCEDURES

1.1 SUBMITTALS

A. The Contractor shall submit, in accordance with Section 013305, Construction Submittals, the following:
   1. Request for Certification of Substantial Completion.
   2. Request for Final Inspection and Testing.
   3. Final Record Documents. The Contractor shall submit final documents marked “As-Built” to the COR with a request for inspection and Substantial Completion.
   4. Warranty Management Plan

1.2 WARRANTY MANAGEMENT AGENT

A. The Contractor shall provide a qualified representative, knowledgeable in the operation and maintenance of the various building systems as installed in the works, for a period of one year.

1.3 GENERAL

The Contractor shall comply with the instructions of the Contracting Officer and the COR for procedures, sequence, timing, and similar considerations regarding the turnover of facilities to Government personnel.

1.4 SUBSTANTIAL COMPLETION

A. General: Before requesting the Certificate of Substantial Completion from the COR for all work or a defined portion thereof, the Contractor shall complete the following, as applicable:
   1. Progress Payment Request: Submit no earlier than the date claimed for Substantial Completion.
   2. Reflect a 100 percent complete status or list non-substantial items that remain incomplete.
   3. Submit Operation and Maintenance Data.
   4. Submit Record Documents.
   5. Deliver extra materials in the manner requested by the COR. to include:
      b. A detailed spare parts list for all equipment that will be required onsite to minimize future down times.
      c. Extra stock of materials.
      d. Keys to locks.
B. Make physical adjustments, correct minor defects, touch-up finishes, and lubricate operating parts.

C. Request for Certification of Substantial Completion:

Following the inspection, the Contractor’s QC Manager shall provide the COR with a schedule of defects. Defects deemed to be substantially out of compliance with contract quality or performance standards shall be corrected prior to issuance of the Certificate of Substantial Completion.

1.5 FINAL ACCEPTANCE

A. General:

1. The Contractor shall notify the COR at least fifteen (15) calendar days prior to the time when the Contractor believes all work included in the contract will be ready for Final Acceptance.

B. Request for Final Inspection:

1. The Contractor shall submit the following when requesting Final Acceptance of the work:
   a. Schedule of Defects:
   b. Final Application for Payment:
   c. Upon the Contractor’s satisfactory completion and correction of any outstanding punchlist items, the COR in coordination with the Elevator Management Program will recommend issuing the Certificate of Final Acceptance.

1.6 RECORD DOCUMENT SUBMITTALS

A. The Contractor shall develop and maintain an original mark-up set of Contract Documents and Submittals.
   1. Indicate each change by change order number when related to a Contract Modification.

B. Final Record Documents:

   1. Record As-Built Drawings
      a. Indicate “As-Built” conditions as documented from actual installation.
      b. Maintain the As-Built documents and make available for USG review at any time.
      c. Provide two (2) sets of CDs/DVDs, two (2) sets of full size drawings, and one (1) set of half size drawings to PD at Final Acceptance.

   2. Record Contract Specifications
      a. Maintain a full set, marked up to record minor changes.
b. Provide three (3) sets of CDs/DVDs and one (1) paper copy.

3. Record Shop Drawings:
   a. Maintain a full set of accepted shop drawing black-line prints, with marked changes.

C. Operation and Maintenance Data

D. WARRANTY

   The General Contractor’s Warranty Management commences early in the start-up phase and ends at a period of one year (12 months) from the issuance of substantial completion of the last elevator modernized or installed. Unless otherwise agreed upon.

END OF SECTION
1.1 SUBMITTALS

A. Schedule
   O&M Library:
   1. The Contractor shall submit two (2) draft hard copies and one (1) CD/DVD version of the complete Maintenance Library (60) calendar days prior to Substantial Completion.
   2. The Government review period will be thirty (30) calendar days.

1.2 OPERATIONS AND MAINTENANCE LIBRARY

A. Hardcopy Format:
   1. All documents shall be prepared in English.
   2. All documents shall be included within 3-ring binders:
   3. The Library shall be sub-divided using CSI numbers per project Specifications.

B. Electronic Format on CD/DVD
   An electronic copy of all submitted O&M library documents shall be created in PDF format.
   1. Electronic copies must be readable by Adobe Acrobat Reader 8.0.
   2. All PDF documents shall be word searchable.
   3. The electronic format of the indices described above shall be hyperlinked to the O&M product data described below.
   4. All sections and subsections shall be bookmarked to further facilitate the search functionality.
      a. Each CSI numbered section shall be bookmarked separately within the PDF file. Include the CSI number and the section title in the bookmark name.
      b. Include additional bookmarks for critical documents including Maintenance Plan, etc. within each section.
   5. Labeling: Discs shall be labeled and include Post name, and month and year of Substantial Completion.
   6. CD/DVD Instructions:
      a. A brief guide for installing and viewing the library documents shall be located in the CD/DVD root directory. This file shall be named “readme.txt.”
      b. A hard copy of readme.txt shall be inserted as the back cover of the CD/DVD jewel case.

1.3 O&M LIBRARY REQUIRED DOCUMENTS

A. A complete listing of all equipment and systems. Specify manufacturer, make, model,
size, capacity, serial number, facility name and location on Project Site, and identifying labels consistent with contract documents.

B. As-built Drawings. One complete set of drawings and one set of hard discs with all drawings in AutoCAD format.

C. O&M Manuals
   1. Manuals shall be subdivided by specification section. The first document in each section shall be the Specification text followed by a list of all equipment covered under that section.
   2. The Contractor shall locate documents for each piece of maintained equipment from the list above as follows:
      a. Product Description to include:
         1) Manufacturer name.
         2) Model name and number.
         3) Component serial numbers.
         4) Name, Address, and contact information for Installation subcontractor.
      b. Preventive Maintenance Schedule:
         1) Maintenance tasks, inspections, and tests by required frequencies equally balanced throughout the calendar year for each PM requirement identifying the designated skill trade, with estimated maintenance labor duration.
         2) Safety and emergency instructions.
         3) Detailed procedures for detecting faults during scheduled or unscheduled servicing.
         4) Information on seasonal adjustments, emergency or partial operating procedures, start-up and shut-down detail, and other operationally significant information.
         5) Maintenance approach.
         6) Precautions against improper use and maintenance.
      c. Manufacturer’s Product Data and Technical Literature:
         1) Detailed operating procedures, parameters, and tolerances.
         2) Troubleshooting guides.
      d. Manufacturer’s Warranty information, (those extending more than one year) including copies of warranties, forms, and expiration dates.
      e. Shop drawings, wiring diagrams, flow charts, and equipment sequence of operations.
      f. Material Safety Data Sheets (MSDS), as required.

1.4 List of Materials for Operation and Maintenance (Manufacturer's Spare Parts).
Contractor shall provide a detailed list of materials and spare parts required to operate, maintain, and repair all elevator systems and installed equipment. The spare parts list must be approved by the Elevator management Program before any spare parts are ordered.
1.5 POSTED INSTRUCTIONS

A. Operation and Maintenance Instructions:
   1. Unless otherwise indicated the Contractor shall post O&M instructions at principal units of operational equipment, components, and building systems. They shall include instructions for safety, security, and mandatory protective devices. Instructions shall include, but not be limited to:
      a. Start-up and shut-down procedures.
      b. Control sequences.
      c. Wiring diagrams and layouts.
      d. System piping diagrams, valve locations, etc
   2. Emergency info. shall be posted in English and host country language.
   3. Instructions Mounting and Location:
      a. Attach to or near each piece of equipment.
      b. Frame in Plexiglas or similar material.
      c. Illuminate, as necessary, to ensure readability.
      d. Provide permanent, protected, tamper-resistant signage, appropriate to the exposure conditions.
      e. Locate for convenience of O&M personnel, but concealed from others, except in the case of general-usage and emergency facilities.

B. Equipment Data Plates:
   1. The Contractor shall provide permanent information plate on each item of operating equipment which is connected with services, has operating parts, or is likely to require servicing, parts replacements, control, testing, or similar care and maintenance.
   2. Appropriate information shall be provided on data plates in each case, including the following minimum data as applicable:
      a. Name of manufacturer and product.
      b. Model designation and serial number.
      c. Capacity, speed, service rating, weight, and operational data.

END OF SECTION
SECTION 14200 - ELEVATORS - General

PART 1 - GENERAL

1.1 SUMMARY

A. The intent of this Work is to replace the consular section elevator in US Government Owned Properties in Cairo, Egypt.

B. Electric Traction Elevators, detailed as follows:

1. Consular Elevator: One (1) ADA passenger elevator.

C. The Work shall be “turn-key” ready for the owner, meaning all elevator work and related work shall be completed by the contractor in accordance with regulatory safety requirements and manufacturer guidelines prior to approval for passenger use.

D. The work shall encompass but is not be limited to the following:

1. ADA Consular Elevator:
   Removing, in its entirety, and disposing of the existing room less traction elevator. This shall include removing the counterweight frame, guide rails, landing door frames, hoistway door equipment, and overhead equipment. Once completed, provide a new traction MRL elevator package. The all-inclusive installation shall include new hoistway door frames and sills at all landings with the addition of a new entrance at the top landing.

A room less elevator shall be raised to meet the EN81 code requirements for hoistway overhead clearances and refuge space. The side opening of the hoistway shall be blocked with concrete same as existing section of the rest of the hoistway section constructed of concrete with reinforced steel rebar. Structural design and details of the opening blockage shall be submitted for review and approval. The contractor shall install the new guide rails from the pit floor into the hoistway area where the machine and suspension means terminations will be installed.

E. The work shall include specific staffing requirements to include both a US based Project Manager and Adjuster that will coordinate with the local contractor for the duration of the project. See section 3.1

F. The work shall include a one (1) year (12 months) warranty. The warranty period will begin at the project completion date by issuance of the “notification of acceptance” of the final car. Project completion is established by a successful completion of a final acceptance test and the resolution of all “punch-list” items. Notification of acceptance is at the discretion of the Bureau of Overseas Building Operations (OBO) Elevator Program Management and will be issued in writing.
Note: Refer to Section 14210 - ELECTRIC TRACTION ELEVATORS for specific requirements of each location.

1.2 RELATED WORK TO BE PERFORMED (All Cars)

A. Hoistway and Pit:
   1. Verify that the hoistway and pit is clear and plumb; deviations that exceed 25.4mm (1 in.) in hoistway plumb that will require modifications shall be submitted to OBO for approval prior to any remediation efforts.
   2. Bevel cants not less than 75° from the horizontal on any rear or side wall ledges and beams that project or recess 101.6 mm (4 in.) or more into the hoistway. Bevel cants shall not be required on hoistway divider beams.
   3. Retain existing divider beams between adjacent elevators at each floor, pit, and overhead.
   4. Retain any intermediate car guide rail supports when floor heights exceed 4.26 m (13.9 ft) or, as designated by the approved shop drawings. Intermediate counterweight guide rail supports are required where floor heights exceed 4.8 m (15.7 ft.).
   5. Repair all holes in hoistway walls created during the upgrades.
   6. Paint all the walls of the hoistway down to the pit floor and overhead spaces, color to be white. Pit floor to be painted a medium grey.
   7. Provide fire stopping to all penetrations in the hoistway and machine room created during the upgrades. The finished hoistway will be a fire rated enclosure; provide any patching required to facilitate this. Back fill and patching will match the material of the adjacent surfaces. This work will include any required “walling in”.
   8. Provide any necessary cutting and patching to corridor walls and floors. As this is an occupied building, any cutting which creates sparks, dust and excessive noise will require coordination with the Owner and must be approved by the COR. Dust containment is a requirement. Any remediation, cleaning or restoration as a result of this project will be the sole responsibility of the contractor. A minimum one business day notification is required for any such efforts.
   9. Restore finishes to match existing without demarcation lines. Any abandoned, partially utilized or degraded surface, integral to, or, affected by, this project will be restored to like new condition. This will include areas inside of and outside of the hoistway.
   10. Provide any concrete wall pockets and/or structural steel beams for supporting hoist machines, rope sheaves, dead-end hitch beams and any related equipment.
   12. Provide any necessary structural support at the pit floor required for buffer impact and guide rail loads.
   13. Provide a permanently mounted pit access ladder for each car conforming to ASME A17.3 2015. Install a pit ladder on the same side of the pit wall that is closest to the hoistway door release mechanism. The pit ladder shall be painted bright yellow. The installation must be approved by OBO Elevator Program Management.
   14. Water monitors shall be provided in all elevator pits where sump pumps are nonexistent.
      a. Water monitors shall be installed in a location free from elevator equipment interference.
      b. Water monitors shall have an audible/visible alarm from outside the hoistway.
      c. Water monitors shall be connected to the elevator controller to recall elevator to an
upper level in the event that water is detected in the pit.

15. Protect all open hoistways and entrances with approved floor to ceiling “closed” full height barriers which cover the entire opening during construction. Barriers shall be constructed to minimize noise and dust contamination to outside areas.

NOTE: At no time will entrances be left open without proper barricades or unattended.

16. Protect all car enclosures, hoistway entrance assemblies, and special metal finishes from damage during the construction phase.

17. Provide a finished elevator floor constructed from commercial rubber sheet material with the color and style chosen by post staff.

18. Installed equipment not meeting this requirement shall be removed and replaced with conforming equipment at no cost to the Government.

19. Coordination of any required onsite storage needed for elevator materials and tools is a strict requirement. Prior to arriving onsite, coordinate the delivery and placement of any shipping containers (or storage means) with Post. Protect all surfaces from damage due to the placement of storage means. Discarded equipment will be stored in weather tight containers to prevent oil leaks and ground contamination. Waste oil and other related fluids will be stored in new, clearly labeled, storage drums and discarded in the proper manner.

20. Provide a complete installation. This will include any required connections to building systems. All connections shall be subject to approval by the COR.

21. Remove all project debris from the site on a daily basis. Provide any necessary debris collection resources as needed to accommodate the approved methods. Coordinate the placement of dumpster, drums, etc. with the COR.

22. For the electric lighting and power work, post shall be responsible for all work required up to the disconnect switch of the elevator. The contractor shall be responsible for all work required from the disconnect switch, to include the elevator car, hoistway and pit.

23. Paint machine room walls and ceiling white. Floor to be painted with industrial paint, medium grey color.

24. Remove existing lighting fixtures and install new LED light fixtures with shatterproof guards in the machine room.

25. Relocate the fire recall modules to make room for the new elevator controllers if required. Discussions can be held onsite for specifics.

26. Provide new cab lighting/fan disconnecting means at the new location near the entrance door in the machine room, which is protected, grounded, lockable only in the “open position, and clearly labeled with the car number and panel of origination. This disconnect shall be piped (EMT) and wired from the existing breaker panel.

B. Electrical Service, Conductors and Devices:

1. Provide one additional GFCI convenience outlet in each pit for the water monitor if a sump pump is non-existent.

2. Provide hoistway lighting throughout the hoistway of all elevators consisting of at least one (1) dual bulb 1219 mm (4ft), LED fixture at each landing, multiple dual bulb fixtures in the overhead and machine room area. On/Off switches shall be three way switches,
installed at the terminal landings, accessible within one half meter from the entrance jamb. Where the lowest landing provides access to the pit, the switch will be located near the pit ladder. These three way switches will illuminate all pit and hoistway lighting for all cars in a group.

3. Provide shatterproof guards for all lights.
4. Install new three (3)-phase mainline copper power feeders, including a ground wire from the new main line disconnects to the main grounding terminals of each elevator controller.
5. Install new single-phase copper power feeders and ground wire from the new lighting disconnects to each elevator controller for car lighting and exhaust blower (exhaust fan).
6. Install new metal conduit and trough as required on car tops, and hoistways, no exposed wiring shall be accepted
7. Provide temporary power and illumination to facilitate the installation of elevator equipment during construction.
8. Provide emergency autodialing telephones and announcement speakers in the car connected to the individual elevator control panels in the Marine post 1 room.

1.2 DEFINITIONS

A. Terms used in the specification are defined in the latest edition of the safety rules for the construction and installation of lifts, or as stated below.

B. Defective Elevator Work: Operation or control system failures; performance below specified ratings; excessive wear; unusual deterioration or aging of materials and finishes; unsafe conditions; the need for excessive maintenance; abnormal noise or vibrations; and similar unusual, unexpected, and unsatisfactory conditions.

C. Alignment: Coordinated installation of hoistway entrances with installation of elevator guide rails to facilitate alignment of the car entrance.

D. Hoistway: Elevator shaft or well.

E. Protected or Grounded: Connected to ground or to a conductive body that extends the ground connection.

F. Provide: To make ready, to install completely, included within the scope of work or contract.

G. Final Acceptance: Instance when the project is 100% complete including the resolution of any project discrepancies and punch list items, meeting the requirements of the customer or his/her representative.

H. Contracting Officer Representative (COR): A US Government (Embassy) employee, designated by the Contracting Officer to represent him/her on managing the project, responsible for managing contractor’s work.
I. Owner: The United States Government or, its representative, to include, the Contracting Officer (CO), the Contracting Officer representative (COR), and Facility Maintenance and its representatives.

J. Staffing Requirements: One (1) experienced Project Manager based in the US for support and coordination with the local contractor staff and One (1) Engineer / Adjuster experienced in both the old Otis 401/411 equipment and the new equipment that will be installed with the ability to travel to Post for adjusting, trouble shooting, and fine tuning throughout the duration of the project.

K. Overseas Building Operations (OBO) Elevator Management (EM): The US Government’s technical expert for vertical transportation equipment. The subject matter expert whom will approve project selections, changes, testing results and other project characteristics in conjunction with the contracting officer.

1.3 QUALITY ASSURANCE

A. The elevator installation contractor shall be certified and have 10 years experience in maintenance, modernization, testing and construction of the elevator equipment being supplied. Credentials and supporting justifications proving a bidders qualifications will include the following:

1. A clear demonstration of industry expertise through a resume of successfully completed projects of a similar magnitude.
2. A portfolio of local maintenance customers with similar equipment.
3. The ability to quickly and easily obtain technical support from the manufacturer.
4. The ability to quickly and easily obtain spare parts for maintenance and key components for major repairs.
5. A depth of staff which will support timely execution of the project and facilitate ongoing maintenance efforts.
6. A technical mastery of the equipment proposed/installed which can be validated through substantial experience, factory authorized training or any other means which supports this claim.
7. The ability to understand and apply the governing codes and standards as well as, perform any necessary testing.
8. A highly regarded and documented safety program with measureable results.
9. Providers may be asked to substantiate any/all of these characteristics as a basis of award or during any portion of the project

B. Engineering support, training, on site diagnostic tools, and replacement equipment shall be non-proprietary and readily available to the owner’s independent elevator service providers.

C. Standards: The most current version of the following:

1. Americans with Disabilities Act (ADA) and ABA Accessibility Guidelines or equivalent EN81-70 Accessibilities Standard to lifts for persons including persons with a disability
2. ASME QEI-1 -2015
ELEVATORS – General

3. Codes, Ordinances and Laws applicable within the governing jurisdiction
4. Elevator Employees Safety Handbook 2015
8. 2014 National Electrical Code, NFPA 70 or European Equivalent
9. OBO-ICS 2015 Supplement to the International Building Code
10. OBO 2015 Design Standards: E0905 Vertical Transportation

E. Warranty:
1. Material and workmanship of the installation shall comply in every respect with contract documents. Correct defective material or workmanship which develops within one year from date of final acceptance of work to the satisfaction of the COR at no additional cost, unless due to ordinary wear and tear, or improper use or care by Purchaser. Perform maintenance in accordance with terms and conditions indicated in this section.
2. Refer to definition of “Defective” in 1.3.B.
3. Make modifications, adjustments and improvements to meet performance requirements in Parts 2 and 3 included in this statement of work.

1.4 JOBSITE VERIFICATION

It is the sole duty of the contractor to review the contract documents and site conditions to verify product compatibility. Site alterations due to product requirements shall be submitted for review fourteen (14) calendar days prior to the bid due date.

1.5 SUBMITTALS

A. Within forty-five (45) calendar days after the contract award and prior to manufacturing and fabrication, submit three (3) complete comprehensive sets of shop drawings and sample materials for review. All submissions require OBO/COR approval.
B. Layout Drawings: Provide layout drawings for all elevators showing plans, elevations, sections, and large-scale details for: landings served, machine room layout, coordination with building structures, and relationships with other construction, pit ladder, light, service outlet, light and stop switches. Indicate variations from specified requirements. For new installations, include calculations and locations for, maximum dynamic and static loads imposed on the building structure.
C. Shop Drawings: Provide detailed shop drawings for all equipment being installed as part of this project. Shop drawings for fixtures, cabs, doors, frames, and all other finished elements shall include information regarding the finishing materials and finished surface preparation.
D. Power Confirmation Information: Include motor horsepower, starting current, full-load running current, and demand factor. Prior to removing any cars from service, the contractor will perform a detailed power study for each type of car. The study will require 7 days of monitoring actual line conditions for a period to include 5 working days and 2 weekend days. At the culmination of the study, provide a detailed report of the findings to
include: average power use by day, minimum and maximum current, voltage and total harmonic distortion values will be depicted graphically by day and occurrence. At the culmination of acceptance testing of the modernized elevators, the contractor will perform the same power study. With the close-out documentation, provide a detailed report which highlights the “before and after” comparison of values. This document will be included in the required closeout documentation.

E. Finishes: Submit samples of actual finished materials for review of color, pattern, and texture. Compliance with other requirements is the exclusive responsibility of the contractor. Include, signal fixtures, lights, graphics, Braille plates, and details of mounting provisions.

F. Maintenance Manuals: For approval, provide maintenance manuals for each elevator including: operation and maintenance instructions, parts listing with recommended sources, recommended parts inventory listings, emergency instructions, wiring diagrams, mechanical drawings, and troubleshooting information. Include all diagnostic and repair information available from the manufacturer.

G. Acknowledge and/or respond to review comments within seven (7) calendar days of receipt. Promptly incorporate the required changes so that delivery and installation schedules are not affected. The provider’s revision response time is not justification for equipment delivery or installation delays.

H. Schedule: Submit a detailed Microsoft Project schedule including key project milestones. These items shall include but not be limited to: security clearance progress, parts deliveries, start dates, installation durations, construction (temporary) use cars, testing and inspections. The project schedule shall correspond with the schedule of values and the payment application process.

1.6 TESTING AND INSPECTION

A. Perform all tests required in by the codes and standards found in section 1.4, “Quality Assurance”.

B. Final safety tests will be witnessed by an OBO Elevator Management representative. Scheduling notifications for testing are required twenty one (21) calendar days in advance. The contractor shall provide any necessary test weights, fixtures and tools. Acceptance test data will be collected in accordance with the document Appendix C, one week prior to the test date, the contractor will complete the exact acceptance test in a “dry run” format. Test data will be collected and submitted to OBO Elevator Management/COR within 24 hours, on the provided form (Appendix C).

C. In the eleventh month of the warranty period, the contractor will provide a successful “no load” safety test, witnessed by an OBO representative. The successful completion of this test is a requirement for a project closeout. “No load” safety test data will be collected in accordance with the document located in Appendix D and performed on all cars.
1.7 MAINTENANCE

A. Interim Maintenance: Interim maintenance shall be provided by the existing onsite service team starting from the contract award date until the respective elevator is removed from service. This maintenance service shall follow the existing service contract. Appendix E is the statement of work for the current maintenance contract that the Embassy has for all elevators. Upon contract award, this SOW shall apply to the thirteen elevators starting from the award date and until each elevator is taken out of service for the modernization.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Elevator, recommended Vendors for Controls and Drives shall be OTIS equipment.

2.2 MATERIALS

A. Steel:

B. Stainless Steel: Type 302 or 304 complying with ASTM A167, with standard tempers and hardness required for fabrication, strength and durability. Apply mechanical finish on fabricated work in the locations shown or specified, (Federal Standard and NAAMM nomenclature), with texture and reflectivity required to match Post’s requirements. Protect with adhesive paper covering. No. 6 brushed (satin finish).

C. Plastic Laminate: ASTM E84 Class A and NEMA LD 3.1, Fire-Rated Grade (GP-50), Type 7, 1.27 mm (0.05 in.) ± 0.127 mm (0.005 in.) thick, color and texture as follows; Exposed Surfaces: Color and texture selected by Post. Concealed Surfaces: Provider’s standard color and finish.

D. Fire-Retardant Treated Particle Board Panels: Minimum 19 mm (0.74in) thick base for natural finished wood and plastic laminate veneered panels, edged and faced as shown, provided with suitable anti-warp backing; meet ASTM E84 Class “I” rating with a flame-spread rating of twenty-five (25) or less, registered with Local Authorities for elevator finish material.

E. Paint: Clean exposed metal parts and assemblies so they are free of oil, grease, scale, and other foreign matter and apply one coat of standard rust-resistant primer. After installation, provide one finish coat of low VOC industrial enamel paint. Galvanized
metal need not be painted.

F. Prime Finish: Clean all metal surfaces receiving a baked enamel paint finish so they are free of oil, grease, and scale. Apply one coat of rust-resistant primer followed by a filler coat over uneven surfaces. Sand smooth and apply final coat of primer.

G. Baked Enamel Finish: Prime and finish per above (2.3 E and F). Unless specified “prime finish” only, apply three (3) additional coats of enamel in the selected solid color.

2.3 CAR PERFORMANCE

A. Car Speed: ±3% of contract speed under any loading condition.

B. Brake Capacity: Safely lower, stop and hold 125% of rated load.

C. Car Leveling accuracy: ±6.35mm (0.25in.) under any loading condition.

D. Door Opening Time: Time required from start of opening to fully open.

E. All Automatic Cars = 2 seconds (standard size 42").

F. Door Closing Time: Time required from start of closing to fully closed.

G. All Automatic Cars = 4 seconds (standard size 42").

H. Car Ride Quality:
   1. Acceleration and Deceleration: Smooth constant
   2. Car ride shall be smooth and free of vibrations.

2.4 SEISMIC OPERATIONS AND EQUIPMENT

A. OBO ISC 2009 Overseas Buildings Operations – International Code supplement states Cairo, Egypt as a Seismic Zone “2A”.

B. Provide ring and string on each side of the counterweight frame on each traction elevator to monitor counterweight displacement during a seismic event.

   1. In the event of a counterweight becoming dislodged from the rails and activating the ring and string, the elevator shall stop and move slowly away from the counterweight.

C. Provide permanent counterweight ty- downs on all electric traction elevators.

PART 3 - EXECUTION
3.1 SITE CONDITION INSPECTION

A. Staffing requirements:
   1. A US based Project Manager to work in conjunction with the local contractors to resolve in a timely manner questions and concerns relating to the elevators project where missing, incorrect, or damaged parts come into question. This person may be required to travel to the Embassy for the startup meeting and subsequent progress meetings.
   2. A US based elevator adjuster/engineer with extensive modernization experience. Capable of trouble-shooting the existing equipment and the new equipment to be installed. The US based adjuster will be required to travel to the Embassy for the start-up meeting, to separate each unit from the group as required.

B. To confirm that each elevator has been adjusted to peak performance.

C. Prior to beginning the installation of new equipment, examine the hoistway and machine spaces to verify that no irregularities exist which will affect the execution of the work specified.

D. Do not proceed with the installation until identified variations have been resolved by an OBO approved method.

3.2 PRODUCT DELIVERY, STORAGE, AND HANDLING

A. Deliver material in the manufacturer’s original, unopened protective packaging.

B. Store the new materials in the original protective packaging to prevent soiling, physical damage, and moisture intrusion.

C. Protect equipment and exposed finishes from damage and stains during transportation, erection, and construction.

3.3 INSTALLATION

A. Install all equipment in accordance with manufacturer’s instructions, referenced Codes, this specification and approved submittals.

B. Install machine room equipment with access clearances in accordance with applicable codes and this specification.

C. Install all equipment so it may be easily removed for maintenance and repair.

D. Install all equipment to afford maximum accessibility, safety, and continuity of operation.

E. Remove oil, grease, scale, and other foreign matter from all equipment and apply one coat of machinery enamel. Protect parts intended to move freely from paint intrusion (example:
F. All exposed equipment and metal work installed as part of this work which does not have an architectural finish shall be protected with paint.

G. Neatly touch up damaged factory-painted surfaces with original paint colors. Protect machine-finish surfaces against corrosion.

H. Where intended, installations shall be true, plumb and substantially flush at the discretion and approval of OBO/COR.

3.4 FIELD QUALITY CONTROL
A. Work at the jobsite will be routinely (weekly) checked during the course of the installation. It is required that the contractor fully cooperate with the reviewing personnel. Any deficiencies identified during the course of periodic site surveys shall be corrected immediately and prior to any further work continuation.

3.5 ADJUSTMENTS
A. Verify the existing rails are plumb and aligned vertically with total deviation of less than 1.58 mm (0.063in) in 30.5 m (100ft.). Secure joints without gaps and file any irregularities to a smooth surface.

B. Statically balance the car to equalize pressure of roller guides on guide rails.

C. Dynamically balance cars when major work has been completed for accurate weight.

D. Lubricate all equipment in accordance with manufacturer’s instructions.

E. Adjust motors, power conversion units, brakes, controllers, leveling switches, limit switches, stopping switches, door operators, interlocks, and safety devices to achieve required performance levels.

F. Confirm that the suspension means on each traction elevator have been equalized.

3.6 CLEANUP
A. Keep work areas orderly and free from debris during the progression of the project. Remove packaging materials, trash, and debris on a daily basis; to be disposed of in an environmentally friendly manner.

B. Remove all loose materials and filings resulting from work.

C. Clean hoistways, car, car enclosure, entrances, operating and signal fixtures just prior to handover.

3.7 ACCEPTANCE REVIEW AND TESTS
A. Acceptance Review:
1. All work shall be subject to an acceptance review prior to final acceptance. The Provider shall perform a review and evaluation of all aspects of the work prior to requesting OBO’s final review. Work shall be considered ready for OBO’s final contract compliance review when copies of Provider's test and review sheets are submitted and approved and the elevator(s) deemed ready for testing and subsequent service.
2. The contractor shall furnish any labor, materials, and equipment necessary for the review.
3. OBO’s written list of observed deficiencies will be submitted to the Provider for corrective action. OBO’s review shall include the attached commissioning guide.

B. Verification of contract speed, capacity, floor-to-floor, and door performance relative to the Contract Documents.

C. Satisfactory performance of the following:
1. Starting, accelerating, running
2. Decelerating, stopping accuracy
3. Door operation and closing force
4. Equipment noise levels
5. Signal fixture utility
6. Overall ride quality
7. Performance of door control devices
8. Operations of emergency two-way communication device
9. Operations of firefighters' service
10. Operations of special security features and floor lock-off provisions
11. Measured motor and drive currents

D. Test Results:
1. In all test conditions, obtain specified contract speed, performance times, stopping accuracy without re-leveling, and ride quality to satisfaction of the OBO. Tests shall be conducted under both no load and full load conditions. The temperature rise in motor windings will be limited to 50° Celsius (122°F) above ambient. A full-capacity, one (1) hour running test, stopping at each floor for ten (10) seconds in up and down directions may be required.

E. Performance Guarantee:
Should OBO identify defects, poor workmanship, variance or noncompliance with applicable codes, standards or the requirements of contract documents, the provider shall complete corrective work in an expedient manner to satisfaction of the OBO representative at no cost and shall be subject to the following terms:
1. Replace equipment that does not meet code or contract document requirements.
2. Perform work and furnish labor, materials, and equipment necessary to meet specified operation and performance.
3. Perform retesting required by Governing Code Authority, Purchaser and OBO Representative.
4. A follow-up, final contract compliance review shall be performed by the OBO representative after notification by the provider that all deficiencies have been corrected. Provide the OBO representative with copies of the initial deficiency report marked to indicate items which the Provider considers complete. If additional reviews are required due to the Provider’s gross non-compliance with initial and follow-up deficiency reports, the OBO representative shall bill at a rate of $250 US dollars per hour. The Provider acknowledges it will pay for additional compliance reviews.

3.8 CONTRACT CLOSEOUT

A. Maintenance Manuals: Provide four sets of approved manuals as described in section 1.6.F. The manuals shall be neatly bound with all written information necessary to properly maintain and adjustment of equipment. Supply two (2) hard copies in English, and one (1) electronic reproducible master in a PDF format.

B. Wiring Diagrams: Provide straight-line wiring diagrams of all “as-installed” elevator circuits. Provide one additional electronic set as a reproducible master in a PDF format. Mount one set of wiring diagrams on panels, racked, or similarly protected, in the elevator machine room. Provide a remaining set rolled and in a protective drawing tube. Maintain all drawing sets with the addition of all subsequent changes. These diagrams are the US Government’s property.

C. Keys: Provide four (4) sets of keys for all switches and control features. Each key of shall be numbered and tagged with its function. Provide a (3) copies of a detailed key legend clearing identifying the key number and its corresponding function.

D. Provide upgrades and/or revisions of software during the progress of the work. Upgrades to be logged on the inside of every controller door. (example: label maker) warranty period and the term of the ongoing maintenance agreement between the Purchaser and Provider.

E. Inclusive to the contract provide detailed “As Built” drawings of all areas/disciplines affected by the scope of work including but not limited to: elevator machine spaces, hoistways, lobbies. Provide “As Built” drawings for elevator equipment, fire alarm equipment, electrical equipment, fire barriers, doors and access equipment, plumbing equipment, and structural systems. Provide both electronic and hard copies.

F. Facilitate successful no load safety tests witnessed by an OBO representative.

G. Complete the “Close Out Log” located in Appendix D.

END OF SECTION
## Appendix A

### Submission Log

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<tr>
<th>Product Submissions</th>
<th>Spec. Section</th>
<th>Submission Date</th>
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<td>1. Controls</td>
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<td>2. Landing/Leveling Systems</td>
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<td>3. Machine/Power Units</td>
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Appendix B Closeout Log

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SECTION 14210 - ELECTRIC TRACTION ELEVATORS –

PART 1 - GENERAL

1.1 SUMMARY

A. The intent of this Work is to replace one (1) electric traction ADA passenger elevator at Consular Section.

B. The Work shall encompass but not be limited to the following: Removing, in its entirety, the existing overhead traction elevator. This shall include removing the counterweight frame, guide rails, landing door frames, hoistway door equipment, and overhead equipment. Once completed, provide a new traction MRL elevator package. The all-inclusive installation shall include new hoistway door frames and sills at all landings with the addition of a new entrance at the top landing. The machine room floor directly over the hoistway will be removed and the newly installed floor shall be raised to meet the EN81 code requirements for hoistway overhead clearances and refuge space. The raised section of machine room floor shall be constructed of concrete with reinforced steel rebar. It is OBO/EMP expectation to install the new guide rails from the pit floor into the machine room area where the machine and suspension means terminations will be installed.

1.2 RELATED WORK TO BE PERFORMED

Refer to Section 14200 - ELEVATORS – General, for items that are applicable on all elevators at all locations. Specifics to the loading Dock elevator are listed herein.

A. Hoistway and Pit
   Refer to Section 14200 - ELEVATORS – General 1.2.A

   1. Provide any necessary structural support at the pit floor required for buffer impact and guide rail loads.
   2. Provide any necessary structural support for the new top landing entrance and hoistway sill support.
   3. Provide for removal of hoistway overhead concrete in a safe manner to increase hoistway overhead space.
   4. Provide commercial non-expanding grout for the areas under the newly installed hoistway sills and space between edge of new sill and existing concrete floor, so no open holes or cracks are visible.
   5. Provide fire rated door that is self-closing and self-locking. The self-closing self-locking machine room door shall have the ability of being opened from the inside without the need of a key.

B. Electrical Service, Conductors and Devices
   Refer to Section 14200 - ELEVATORS – General 1.2.D
PART 2 – PRODUCTS

2.1 SUMMARY: ELEVATOR TECHNICAL PROFILE

Quantity: One (1) traction elevator

Car designation: Elevator #1

Capacity: Car #1 = 675 kg

Class loading: Class A loading

Rated speed: Pass Car #1= 1.0m/s (200fpm)

Suspension means: Provide new

Machine: Provide new gearless

Machine location: Provide new if applicable

Machine Motors: Provide new permanent magnet

Governor: Provide new bidirectional

Governor tail sheave: Provide new with electrical switch for slack cable

Operational control: Provide new solid state

Motor control: Provide new VVVF Variable voltage variable frequency control.

Power characteristics: Retain Existing 380 volts, 3 phase, 50hz

Stops:

Openings: 2 Total

Floors served: LL, Ground

Travel:
Traveling cables: Provide new:

Landing Entrance size: Retain existing:

Landing Entrance type: Provide new:
( hoistway doors )

Car Door operation: Provide new

Car sill: Provide new: stainless steel

Car Door protection: Provide new

Car Doors and Door Equipment: Provide new stainless steel doors Hoistway doors to be 1.5 hour fire rated

Safety Gear: Provide new

Guide rails: Provide new

Roller Guides: Provide new adjustable roller guides

Buffers: Provide new

Car enclosure: Provide new standard package

Signal fixtures: Provide new LED bulbs

Hall (Landing) stations: Provide new with LED bulbs

Car operating panels: Provide new stainless steel with LED bulbs

Car position indicators: Provide new digital

Hall (Landing) lanterns: Provide new with LED bulbs

Hall (Landing) car position indicator: Provide new digital PI

Communication systems:
- Provide new: Hands free emergency phones for all cars integrated into the new car operating panels (voice call)
- Elevator Behavior in the event of a fire. shall include main and alternate floor return as well as a manual fire recall keyswitch.
- Connect to existing standby/emergency power operation.
- Provide new: EN81-70 requirements for persons with disabilities including accessibility signage.

Additional features
• Provide new 2 speed cab ventilation fan
• Provide new: Platform isolation
• Provide new: Load-weighing devices
• Provide a service cabinet that includes an independent operation, fan, and light keyswitch and electrical outlet in the car operating panel.
• Provide tamper proof fasteners for all fasteners exposed to the public.
• Provide signage engraving filled with black paint or an approved an etching process.

2.2 OPERATION CONTROL

A. Simplex selective collective Microprocessor based:

1. Dispatching control shall provide zoning capability as follows.
   a. Normal operation: Car to home at the main lobby
   b. Up-peak operation during designated business hours.
   c. Provide a user-friendly interaction between the service personnel and the elevator controls. All control systems and diagnostic systems shall be free of secret codes and decaying circuits that are periodically reprogrammed by the manufacturer. Monitoring elevator status and operations shall be done with a local IP address.

B. Simplex Operation: Elevator operation shall be fully automatic by means of the car and landing buttons. Stops registered by the momentary actuation of the car or landing buttons shall be made in the order in which the landings are reached in each direction of travel after the buttons have been actuated. All stops shall be subject to the respective car or landing button being actuated sufficiently in advance of the arrival of the car at that landing to enable the stop to be made. The first car or landing button actuated shall establish the direction of travel for an idle car. “UP” landing calls shall be answered while the car is traveling in the up direction and “DOWN” landing calls shall be answered while the car is traveling down. The car shall reverse direction after the uppermost or lowermost car or landing call has been answered, and shall proceed to answer car calls and landing calls registered in the opposite direction of travel.

C. Behavior of the elevator in the event of a fire. EN81-73 Provide main and alternate landing recall.
   1. Main recall landing to be lowest level “G”
   2. Alternate landing recall to be 1st floor

D. Card-Readers: No card readers required.

E. Load Weighing: provide a digital means for weighing car passenger load. The control
system shall provide dispatching at main floor in advance of normal intervals when car is loaded to a programmed capacity. The load weighing device shall automatically re-zero/recalibrate itself.

1. Provide hall call by-pass when the car is loaded to preset percentage of rated capacity and traveling in any direction. Field adjustment range: 10% to 100%.

F. Access operation:
   1. This function will be completed by the installation of the maintenance access panel (MAP) that will be installed in the existing machine room.

G. Motion Control: Microprocessor based variable-voltage, variable frequency AC (VVVFAC) with digitally Encoded, closed-loop, velocity feedback suitable for operations specified. The system shall be capable of providing smooth, comfortable car acceleration, deceleration, and dynamic braking. Encoder cables shall be isolated in dedicated conduits to prevent unwanted EMF contamination.

H. Door Operation: door operation shall be automatic, with nudging operation and adjustable parameters.

I. Standby Lighting and Alarm: provide a car mounted battery unit with an integrated solid state charger used to operate the alarm bell and car emergency LED lighting in the event of a power loss. The battery will be rechargeable with minimum five (5)-year life expectancy. Include the required transformer, (if required) provide a constant pressure test button in the service compartment of the car operating panel. Provide lighting integral with a portion of normal car lighting system.

J. Standby Power Operation: upon loss of normal power, adequate standby power will be supplied, via building electrical feeders, to simultaneously start and run all cars at contract car speed and capacity.

K. Elevator to be equipped with machine room operation (MRO) and Automatic Rescue Operation (ARO) in the event of an elevator shut down or power loss. This will allow the elevator to be safely moved to a floor level condition under battery power in either direction in the event of a shut down or trapped passenger.

2.3 HOISTWAY EQUIPMENT -

A. Sheaves and sealed bearings:
   1. Provide new sheaves with maintenance free sealed bearings, mounted to machines and structural members with the appropriate hardware. Pillow blocks shall be “double nutted” and mounted using a grade 5 or equivalent hardware. Beveled washers are required for through flange mountings.

B. Counterweight:
   1. Provide a new counterweight frame and metal weights.
   2. Weights shall be secured in the frame with thru rods or bolted brackets to keep weights from rattling and becoming dislodged.
C. Counterweight Guides: Provide new spring dampened adjustable roller guides.

D. Car and Counterweight Rails: Provide new rails and brackets according to the manufacturers design.

E. Counterweight Guard: Provide a new counterweight guard at pit level, painted yellow.

F. Governor: Provide a new bidirectional governor, with overspeed switch and remote reset.

G. Governor Rope Tensioning Sheaves: Provide new sheaves and support frame on the pit floor or guide rail. Provide a frame with guides or pivot point to enable free vertical movement and rope tension.

H. Suspension means: Provide new traction suspension means that meet the manufacturers design and specifications for the equipment installed.

I. Governor Ropes: Provide new governor ropes to meet the manufacturer’s specification.

J. Terminal Stopping: Provide new shaft limit switches. Pinned (thru-bolted) at permanent locations.

K. Electrical Wiring and Wiring Connections: Conductors and Connections: Provide copper throughout with individual wires coded and connections on identified studs or terminal blocks. Use no splices or similar connections in wiring except at terminal blocks, control compartments, or junction boxes. Provide 10% spare conductors throughout. Run spare wires from car connection points to individual elevator controllers in the machine room. Provide four (4) pairs of spare shielded communication wires in addition to those required to connect specified items. Tag spares in machine room.

L. Conduit: Painted or galvanized steel conduit, Electrical Mechanical Tubing (EMT) or duct. Conduit shall be adequately supported, installed plumb and level, and supplied with appropriated fittings for termination at devices. Conduit size, 19 mm (0.74in.) minimum. Flexible conduit is permitted in lengths of 1.8m (6 feet) or less. Flexible heavy-duty service cord may be used between fixed car wiring and car door switches for door protective devices.

M. Flexible conduit on the pit floor will not be accepted.

N. Traveling Cables: Provide new traveling cables with flame and moisture-resistant outer covers. Hang traveling cables in a manner that will prevent rubbing or chafing against the hoistway or equipment within the hoistway. Provide a minimum of 10% spare conductors. Separate and clearly identify spare wires at both termination points.

O. Auxiliary Wiring: Connect fire alarm initiating devices, emergency two-way communication system.
2.4 HOISTWAY ENTRANCES, DOORS, AND DOOR EQUIPMENT

A. Hoistway Door Jambs and Sills:
   1. Provide new hoistway entrance jambs and sills at all landings.

B. Existing top landing has no elevator hoistway entrance, provide to install a new top landing elevator hoistway entrance and hoistway door assembly providing the latest EN-81-1: 1998+A3:2009 5.7.1.1(d) Safety rules for construction and installation of lifts can be met. Provide the new entrance to be plumb, level and square in the hoistway.

C. Provide patching for the rough opening area between the new entrance and existing hoistway wall with mortar.

D. Entrance Equipment:
   1. Provide new cold drawn carbon steel hoistway door tracks with self lubricating, replaceable hanger roller assemblies. Rollers shall have sealed ball bearings and nylon rolling surfaces. All hanger rollers are to be equipped with up-thrust prevention and hoistway doors will have additional metal fire up-thrust tabs.
   2. Provide new headers and supporting struts for each entrance. Anchor the structure to the existing sill, door frame and building structure to provide a rigid assembly.
   3. Provide new spring style door closers at all landings.
   4. Provide new landing door interlock contacts and shorting bars at all floors.
   5. Provide new galvanized hoistway fascia as required by code if applicable.
   6. Floor Numbers: Stencil paint 101.6 mm (4 in.) minimum high floor designations in contrasting color on inside face of hoistway doors or hoistway fascia in location visible from within car.
      a. Provide landing entrance Braille plates centered at 1524 mm (60in.) above finished floor, on both side jambs of all entrances. This item is an OBO requirement.
      b. Braille indications shall be below numbered or lettered floor designations.

E. Hoistway door panels:
   1. The door panels shall be fire rated for 1.5 hours. Provide certifying identification tags for each door. Each hoistway entrance shall have provisions for access to the door release via a stainless steel escutcheon.
   2. Hoistway door panels to be baked powder coat, with color to match entrance jambs (color to be determined by Post)

2.5 CAR EQUIPMENT PROVIDE AS FOLLOWS

A. Platform and Sling: Provide a new car platform and sling which is compatible with the MRL/Machine room design. Provide a minimum of ¾” marine grade plywood for the decking. The bottom of the platform shall be fire rated. Provide the code require crosshead data plate, permanently attached on the front of the crosshead.


C. Roller Guides: Provide new spring loaded, adjustable roller guides secured with no less
than 5/8” grade 5 hardware. Adjust the roller guides for adequate rail engagement and to facilitate proper tracking through the limits of travel. The car shall be centered in the rails.

D. Work light and duplex plug receptacle: Provide a new GFCI protected outlet and work light on the car top. Include on/off switch and a light guard.

E. Car top inspection station: Provide a new car top inspection station consisting of an inspection and normal operation toggle switch, a mushroom style stop switch, individual up and down buttons, and, a common run (safety) button.

F. Door Hangers: Provide new hanger rollers with neoprene roller surfaces. Adjust eccentric up-thrust rollers for minimum clearance.

G. Car door track: Provide a new, formed, cold-drawn removable steel track with a smooth roller contact surface.

H. Door Header: Provide new.

I. Provide new brushed stainless steel car doors.

J. Door electrical contact (gate switch): Provide a new car door contact (gate switch).

K. Restricted Opening Device: Provide a new car door restricting device (zone lock) that will restrict opening of car door(s) outside unlocking zone.

L. Door Operator:

1. Provide a new closed loop door operator. The operator shall be a medium speed, heavy-duty closed loop door operator capable of opening doors at no less than 0.762 m/s (2.5 ft/s) and accomplish a door reversal in no more than 63.5mm (2.5 in.) of door movement. Provide solid-state door control with closed loop circuitry to constantly monitor and automatically adjust door operation based upon velocity, position, and motor current. Maintain consistent, smooth and quiet door operation at all floors, regardless of door weight or varying air pressure. Provide one door operator, programming tool as part of the installation (when required for operator programming/adjusting).

M. Provide new: Infrared Reopening Device: Black, fully enclosed device with full screen infrared matrix or multiple beams extending vertically along leading edge of each door panel. Device shall prevent doors from closing and reverse doors at normal opening speed if, beams are obstructed while doors are closing, except, during nudging operation. In the event of device failure, provide for automatic shutdown of car at floor level with the doors open.

N. Nudging Operation: After the beams of door control device (door reopening device) are obstructed for a predetermined, adjustable time interval (minimum 20.0 - 25.0 seconds), a warning signal shall sound and doors shall attempt to close with a maximum of 2.5 foot pounds kinetic
energy. Activation of the door open button shall override nudging operation and reopen doors.

O. Interrupted Beam Time: When the beams are interrupted during an initial door opening, the doors shall remain (door hold time) open a minimum of 3.0 seconds. When the beams are interrupted after the initial 3.0 seconds door hold time, will reduce to an adjustable time of approximately 1.0 - 1.5 seconds after beams are re-established.

P. Differential Door Time: Provide separately adjustable timers to vary the time that doors remain open after stopping in response to calls.

Q. Car Call:
   1. Hold open time adjustable between 3.0 and 5.0 seconds.

R. Hall Call:
   1. Hold open time adjustable between 5.0 and 8.0 seconds. Use hall call time when car responds to coincidental calls.

2.6 CAR OPERATING PANELS:

A. The car operating panel shall consist of a stainless steel faceplate and corresponding backbox. The faceplate finish found in the “Finish Chart” shall be retained using tamperproof stainless steel fasteners. The back box shall contain all applicable devices and operating fixtures, and shall be painted black. The faceplate shall be mounted on substantial hinges affixed to the box and open toward the handrail for ease of service.

B. Provide combination direction arrows and digital position indicators. The new combination position indicators will be located in the car operating panels with a minimum of 50 mm (2 in.) characters.

C. Communication System: Provide (voice call) a new two-way communication device in the car operating panel with automatic dialing, tracking and recall features, supplied with shielded wiring to car controller in machine room. Provide a dialer with automatic rollover capability that will dial a minimum of two numbers consecutively if one is busy. Numbers to be determined.

D. After an emergency alarm, the elevator phone shall be in the active state (active alarm) until the passengers have been evacuated from the car. Approved personnel can then reset the alarm onsite (end of alarm).

E. It shall not be possible for the passenger to reset the alarm.

F. It shall be possible to reset the alarm remotely by phoning the elevator.

G. The elevator phone must function at least one hour during a power failure via battery.
H. The battery requires regular service and an automatic alarm must be sent if low charge condition or failure is detected.

I. In every situation it shall be possible to phone the distressed passengers to inform them of possible delays.

J. It shall be possible to filter false alarms. Example: no alarm can be sent with elevator floor level with doors open.

K. Identify floor buttons, alarm button, door open button, door close button and emergency call button in a manner suitable for the visually impaired. Identification plates shall be surface mounted. Configure the plates per the latest local building code accessibility standards including Braille. Locate operating controls no higher than 1219.2 mm (48in.) above the cars finished floor; emergency push-to-call and alarm buttons shall be mounted no lower than 889mm (35 in.).

L. All Braille on the car operating panel shall be mechanically attached.

M. Provide minimum 19 mm (0.74in.) diameter raised or flush floor pushbuttons which illuminate to indicate a call registration.

N. Provide an alarm button to ring the emergency alarm bell located on car. Illuminate the button when actuated.

O. Provide a “door open” button to stop and reopen doors or, to hold the doors in the open position.

P. Provide a “door close” button to activate the door close cycle. The door close cycle shall not begin until the normal door dwell time for a car or hall call has expired, except firefighters’ operation.

Q. Provide black paint filled (except as noted in section L), engraved or approved etched signage as follows. Provide engraved car numbers on the main car operating panels, located at top of panel: In the car the rated load of the lift in kilograms as well as the number of persons shall be displayed. The minimum height of the characters will be 10 mm for capital letters and numbers, 7mm for small letters.

R. SERVICE CONTROLS:
1. Keyed stop switch, marked “RUN”-“STOP”
2. Keyed “inspection” switch marked “NORMAL” – “INSPECTION”
3. Keyed “independent service” switch marked “NORMAL” – “INDEPENDENT”. Provide controls for operation of each car from its car operating pushbuttons only. Door closing will be accomplished by constant pressure on the desired destination floor button or the actual door close button. Opening doors will automatically occur upon arrival at the selected floor.
2.7 CAR ENCLOSURE:

A. Provide steel shell cab enclosure with 19 mm (0.75 inch) thick removable plastic laminate panels on 3 sides. Color and finish to be selected by Post staff. Stainless steel reveals between the panels, stainless steel front return panels, entrance posts and transoms, car doors to be stainless steel to match transom, 3 stainless steel handrails at 813 mm (32 inches) handicap height with ends that return to the cab. Stainless steel suspended ceiling with plastic inserts, LED car lighting, LED emergency lighting, automatic car fan (500 cfm high speed), sheet rubber flooring, pad buttons (pins) and quilted nylon protective pads, and top emergency exit with electrical contact.

2.9 HALL CONTROL STATIONS:

A. Pushbuttons:
   1. One new (1) riser with flush mounted faceplates for each elevator, installed in existing riser location. New face plates shall cover existing area as to eliminate any new wall repair. Mount push buttons 1.07m (42 in.) above finished floors.
   2. Include Tamperproof LED lighted pushbuttons for each direction of travel which illuminate to indicate call registration. Include approved engraved messages and pictorial representations, prohibiting the use of the elevators during a fire or other emergency situation as part of faceplate. The pushbutton design shall match the car operating panel pushbuttons.

2.10 SIGNALS

A. Provide new combination hall lantern and position indicators in kind for the car in existing location. Provide one at each entrance to indicate travel direction of the arriving car. Illuminate up or down LED lights and sound a tone once for up and twice for down direction prior to the car’s arrival at the floor (advanced notification). Sound levels shall be adjustable from twenty to eighty (20 – 80) dBA measured at 1.5 m (4.92ft.) from in front of the hall control station and 91 mm (3.58in.) above the floor. Car direction lenses shall be arrow shaped with faceplates. Lenses shall be minimum 63.5 mm (2.5in.) in their smallest dimension and project from the faceplate.

B. New LED combination hall lantern and position indicators to be located where existing position indicators are currently. The installation shall be designed in such a manner that patching and painting is limited or unnecessary. Design approval by Elevator Management is required.

C. Car Position Indicator: Alpha-numeric digital indicator containing floor designations and direction arrows a minimum of 25 mm (2in.) high to indicate floor served and direction of car travel.

D. Hall Position Indicator: Alpha-numeric digital indicator containing floor designations and direction arrows a minimum of 25 mm (2in.) high to indicate floor served and direction of car travel. Mount integral with hall lanterns at all floors.
   1. Faceplate Material and Finish: No. 6 stainless steel finish for all fixtures.
B. Hall Lantern: No. 6 stainless steel.

C. Car Position Indicator: No. 6 stainless steel.

D. Hall Position Indicator: No. 6 stainless steel.

E. Floor Passing Tone: Provide an adjustable audible tone of no less than twenty (20) decibels which sounds as the car passes or stops at a floor.

**PART 3 – EXECUTION**

3.1 Refer to Section 14200 - ELEVATOR – General, for items are applicable

END OF SECTION
52.204-24 Representation Regarding Certain Telecommunications and Video Surveillance Services or Equipment.

As prescribed in 4.2105(a), insert the following provision:

Representation Regarding Certain Telecommunications and Video Surveillance Services or Equipment (Oct 2020)

The Offeror shall not complete the representation at paragraph (d)(1) of this provision if the Offeror has represented that it "does not provide covered telecommunications equipment or services as a part of its offered products or services to the Government in the performance of any contract, subcontract, or other contractual instrument" in paragraph (c)(1) in the provision at 52.204-26, Covered Telecommunications Equipment or Services—Representation, or in paragraph (v)(2)(i) of the provision at 52.212-3, Offeror Representations and Certifications—Commercial Items. The Offeror shall not complete the representation in paragraph (d)(2) of this provision if the Offeror has represented that it "does not use covered telecommunications equipment or services, or any equipment, system, or service that uses covered telecommunications equipment or services" in paragraph (c)(2) of the provision at 52.204-26, or in paragraph (v)(2)(ii) of the provision at 52.212-3.

(a) Definitions. As used in this provision—

Backhaul, covered telecommunications equipment or services, critical technology, interconnection arrangements, reasonable inquiry, roaming, and substantial or essential component have the meanings provided in the clause 52.204-25, Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.

(b) Prohibition.

(1) Section 889(a)(1)(A) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2019, from procuring or obtaining, or extending or renewing a contract to procure or obtain, any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. Nothing in the prohibition shall be construed to—

(i) Prohibit the head of an executive agency from procuring with an entity to provide a service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or
(ii) Cover telecommunications equipment that cannot route or redirect user data traffic or cannot permit visibility into any user data or packets that such equipment transmits or otherwise handles.

(2) Section 889(a)(1)(B) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2020, from entering into a contract or extending or renewing a contract with an entity that uses any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. This prohibition applies to the use of covered telecommunications equipment or services, regardless of whether that use is in performance of work under a Federal contract. Nothing in the prohibition shall be construed to—

(i) Prohibit the head of an executive agency from procuring with an entity to provide a service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or

(ii) Cover telecommunications equipment that cannot route or redirect user data traffic or cannot permit visibility into any user data or packets that such equipment transmits or otherwise handles.

(c) Procedures. The Offeror shall review the list of excluded parties in the System for Award Management (SAM) (https://www.sam.gov) for entities excluded from receiving federal awards for "covered telecommunications equipment or services".

(d) Representation. The Offeror represents that—

(1) It □ will, □ will not provide covered telecommunications equipment or services to the Government in the performance of any contract, subcontract or other contractual instrument resulting from this solicitation. The Offeror shall provide the additional disclosure information required at paragraph (e)(1) of this section if the Offeror responds "will" in paragraph (d)(1) of this section; and

(2) After conducting a reasonable inquiry, for purposes of this representation, the Offeror represents that—

   It □ does, □ does not use covered telecommunications equipment or services, or use any equipment, system, or service that uses covered telecommunications equipment or services. The Offeror shall provide the additional disclosure information required at paragraph (e)(2) of this section if the Offeror responds "does" in paragraph (d)(2) of this section.

(e) Disclosures.

(1) Disclosure for the representation in paragraph (d)(1) of this provision. If the Offeror has responded "will" in the representation in paragraph (d)(1) of this provision, the Offeror shall provide the following information as part of the offer:
(i) For covered equipment—

(A) The entity that produced the covered telecommunications equipment (include entity name, unique entity identifier, CAGE code, and whether the entity was the original equipment manufacturer (OEM) or a distributor, if known);

(B) A description of all covered telecommunications equipment offered (include brand; model number, such as OEM number, manufacturer part number, or wholesaler number; and item description, as applicable); and

(C) Explanation of the proposed use of covered telecommunications equipment and any factors relevant to determining if such use would be permissible under the prohibition in paragraph (b)(1) of this provision.

(ii) For covered services—

(A) If the service is related to item maintenance: A description of all covered telecommunications services offered (include on the item being maintained: Brand; model number, such as OEM number, manufacturer part number, or wholesaler number; and item description, as applicable); or

(B) If not associated with maintenance, the Product Service Code (PSC) of the service being provided; and explanation of the proposed use of covered telecommunications services and any factors relevant to determining if such use would be permissible under the prohibition in paragraph (b)(1) of this provision.

(2) Disclosure for the representation in paragraph (d)(2) of this provision. If the Offeror has responded "does" in the representation in paragraph (d)(2) of this provision, the Offeror shall provide the following information as part of the offer:

(i) For covered equipment—

(A) The entity that produced the covered telecommunications equipment (include entity name, unique entity identifier, CAGE code, and whether the entity was the OEM or a distributor, if known);

(B) A description of all covered telecommunications equipment offered (include brand; model number, such as OEM number, manufacturer part number, or wholesaler number; and item description, as applicable); and

(C) Explanation of the proposed use of covered telecommunications equipment and any factors relevant to determining if such use would be permissible under the prohibition in paragraph (b)(2) of this provision.

(ii) For covered services—
(A) If the service is related to item maintenance: A description of all covered telecommunications services offered (include on the item being maintained: Brand; model number, such as OEM number, manufacturer part number, or wholesaler number; and item description, as applicable); or

(B) If not associated with maintenance, the PSC of the service being provided; and explanation of the proposed use of covered telecommunications services and any factors relevant to determining if such use would be permissible under the prohibition in paragraph (b)(2) of this provision.

(End of provision)

52.204-25 Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.

As prescribed in 4.2105(b), insert the following clause:

Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment (Aug 2020)

(a) Definitions. As used in this clause—

*Backhaul* means intermediate links between the core network, or backbone network, and the small subnetworks at the edge of the network (e.g., connecting cell phones/towers to the core telephone network). Backhaul can be wireless (e.g., microwave) or wired (e.g., fiber optic, coaxial cable, Ethernet).

*Covered foreign country* means The People’s Republic of China.

*Covered telecommunications equipment or services* means—

1. Telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities);

2. For the purpose of public safety, security of Government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities);

3. Telecommunications or video surveillance services provided by such entities or using such equipment; or
Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

**Critical technology** means–

(1) Defense articles or defense services included on the United States Munitions List set forth in the International Traffic in Arms Regulations under subchapter M of chapter I of title 22, Code of Federal Regulations;

(2) Items included on the Commerce Control List set forth in Supplement No. 1 to part 774 of the Export Administration Regulations under subchapter C of chapter VII of title 15, Code of Federal Regulations, and controlled–

   (i) Pursuant to multilateral regimes, including for reasons relating to national security, chemical and biological weapons proliferation, nuclear nonproliferation, or missile technology; or

   (ii) For reasons relating to regional stability or surreptitious listening;

(3) Specially designed and prepared nuclear equipment, parts and components, materials, software, and technology covered by part 810 of title 10, Code of Federal Regulations (relating to assistance to foreign atomic energy activities);

(4) Nuclear facilities, equipment, and material covered by part 110 of title 10, Code of Federal Regulations (relating to export and import of nuclear equipment and material);

(5) Select agents and toxins covered by part 331 of title 7, Code of Federal Regulations, part 121 of title 9 of such Code, or part 73 of title 42 of such Code; or


**Interconnection arrangements** means arrangements governing the physical connection of two or more networks to allow the use of another's network to hand off traffic where it is ultimately delivered (e.g., connection of a customer of telephone provider A to a customer of telephone company B) or sharing data and other information resources.

**Reasonable inquiry** means an inquiry designed to uncover any information in the entity's possession about the identity of the producer or provider of covered telecommunications equipment or services used by the entity that excludes the need to include an internal or third-party audit.
Roaming means cellular communications services (e.g., voice, video, data) received from a visited network when unable to connect to the facilities of the home network either because signal coverage is too weak or because traffic is too high.

Substantial or essential component means any component necessary for the proper function or performance of a piece of equipment, system, or service.

(b) Prohibition.

(1) Section 889(a)(1)(A) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2019, from procuring or obtaining, or extending or renewing a contract to procure or obtain, any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. The Contractor is prohibited from providing to the Government any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104.

(2) Section 889(a)(1)(B) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2020, from entering into a contract, or extending or renewing a contract, with an entity that uses any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104. This prohibition applies to the use of covered telecommunications equipment or services, regardless of whether that use is in performance of work under a Federal contract.

(c) Exceptions. This clause does not prohibit contractors from providing—

(1) A service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or

(2) Telecommunications equipment that cannot route or redirect user data traffic or permit visibility into any user data or packets that such equipment transmits or otherwise handles.

(d) Reporting requirement.

(1) In the event the Contractor identifies covered telecommunications equipment or services used as a substantial or essential component of any system, or as critical technology as part of any system, during contract performance, or the Contractor is notified of such by a subcontractor at any tier or by any other source, the Contractor shall report the information in paragraph (d)(2) of this clause to the Contracting Officer, unless elsewhere in this contract are established procedures for reporting the information; in the case of the Department of Defense, the
Contractor shall report to the website at https://dibnet.dod.mil. For indefinite delivery contracts, the Contractor shall report to the Contracting Officer for the indefinite delivery contract and the Contracting Officer(s) for any affected order or, in the case of the Department of Defense, identify both the indefinite delivery contract and any affected orders in the report provided at https://dibnet.dod.mil.

(2) The Contractor shall report the following information pursuant to paragraph (d)(1) of this clause

   (i) Within one business day from the date of such identification or notification: the contract number; the order number(s), if applicable; supplier name; supplier unique entity identifier (if known); supplier Commercial and Government Entity (CAGE) code (if known); brand; model number (original equipment manufacturer number, manufacturer part number, or wholesaler number); item description; and any readily available information about mitigation actions undertaken or recommended.

   (ii) Within 10 business days of submitting the information in paragraph (d)(2)(i) of this clause: any further available information about mitigation actions undertaken or recommended. In addition, the Contractor shall describe the efforts it undertook to prevent use or submission of covered telecommunications equipment or services, and any additional efforts that will be incorporated to prevent future use or submission of covered telecommunications equipment or services.

   (e) Subcontracts. The Contractor shall insert the substance of this clause, including this paragraph (e) and excluding paragraph (b)(2), in all subcontracts and other contractual instruments, including subcontracts for the acquisition of commercial items.

(End of clause)

52.204-26 Covered Telecommunications Equipment or Services-Representation.

As prescribed in 4.2105(c), insert the following provision:

Covered Telecommunications Equipment or Services-Representation (Oct 2020)

   (a) Definitions. As used in this provision, "covered telecommunications equipment or services" and "reasonable inquiry" have the meaning provided in the clause 52.204-25, Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.

   (b) Procedures. The Offeror shall review the list of excluded parties in the System for Award Management (SAM) (https://www.sam.gov) for entities excluded from receiving federal awards for "covered telecommunications equipment or services".
(c)

(1) **Representation.** The Offeror represents that it □ does, □ does not provide covered telecommunications equipment or services as a part of its offered products or services to the Government in the performance of any contract, subcontract, or other contractual instrument.

(2) After conducting a reasonable inquiry for purposes of this representation, the offeror represents that it □ does, □ does not use covered telecommunications equipment or services, or any equipment, system, or service that uses covered telecommunications equipment or services.

(End of provision)