

Embassy of the United States of America

Lima, Peru

August 17, 2018

To: Prospective Offerors

Subject: RFQ 19PE5018Q0110 - Annex Chillers Replacement

Enclosed is a Request for Quotation (RFQ) for the chillers replacement at the Annex building in the Embassy, Lima, Peru. If you would like to submit a quotation, follow the instructions in Section J of the solicitation, complete the required portions of the attached document, and submit it to the address shown on the Standard Form 1442 that follows this letter.

The U.S. Embassy will conduct a pre-proposal conference and site visit on August 24, 2018 at 10:00 a.m. and you are invited to attend. Please submit the names and DNIs of people attending the visit to Christian Rivas at rivascr@state.gov no later than August 22, 2018 by COB in order to get the authorization access to the building.

For a proposal to be considered, you must complete and submit four (4) hard copies of the following documentation in English:

Volume 1:

- SF-1442 (block 14, 15, 16 and 17)
- Section A Price
- Attachment 3 Price Schedule Breakdown

Volume 2:

- Attachment 4 Proposed Performance Chart
- Section J Company profile, references, Financial statement and other information required
- Section L Representations and Certifications and Other Statements of Offerors, including proof of System for Award Management (SAM) registration

The U.S. Government intends to award a contract to the responsible company submitting an acceptable quotation at the lowest price. We intend to award a contract order based on initial quotations, without holding discussions, although we may hold discussions with companies in the competitive range if there is a need to do so.

Your proposal must be submitted in a sealed envelope marked "Proposal Enclosed" to Noemi Davila, Contracting Officer, Av. Lima Polo cdra 2, Monterrico, Surco on or before 09:00 a.m. on September 30, 2018, (local date and time). No quotations will be accepted after this date and time.

Sincerely.

Noemi Davila Contracting Officer

Enclosure: As Stated

SOLICITATION, OFFER,	1. SOLICITATION NUMBER		2. TYPE OF SOLICITATION		3. DATE ISSUED	PAGE 1 OF 113 PAGES
AND AWARD	19PE5018Q0110		SEALED BID	(IFB)	08/17/2018	
(Construction, Alteration, or Repair	.,		X NEGOTIATE	(RFQ)		
•	1			(- (/		
IMPORTANT - The "offer" section on the reve			•			
4. CONTRACT NUMBER	5. REQUISITION/PURCHAS PR7598729	SE REO	QUEST NUMBER	6. PROJE	ECT NUMBER	
7. ISSUED BY COD	E PE500		DRESS OFFER TO RICAN EMBASSY LII	МΔ		
AMERICAN EMBASSY LIMA Ave. Lima Polo Cdra 2 Monterrico,		Ave.	Lima Polo Cdra 2 Mo			
ATTN: GSO/Procurement Lima		ATT Lima	N: GSO/Procurement			
PERU		PER	U			
9. FOR INFORMATION a. NAME				MBER (Inclu	de area code) (NO COL	LECT CALLS)
CALL: Christian R Rivas			(51 1) 618-2192			
	SOLIC					
NOTE: In sealed bid solicitations "offer" and "						
10. THE GOVERNMENT REQUIRES PERFORMANCE OF	THE WORK DESCRIBED IN T	THESE	DOCUMENTS (Title,	identifying n	umber, date)	
Solicitation to replace the chillers located at th	e Annex building accord	ina ta	the attached Sta	tement of	f Work and related	documents attached.
•	ŭ	J				
11. The contractor shall begin performance within	10 calendar o	days a	nd complete it withi	n 182	calendar days	after receiving
award, x notice to proceed. This perform	nance period is x manda	atory	negotiable. (S	ee).	
12A. THE CONTRACTOR MUST FURNISH ANY F	REQUIRED PERFORMANC	F AN	D PAYMENT BONI)S?	12B. CALENDAR D	 AYS
(If "YES," indicate within how many calendar of			- · · · · · · · · · · · · · · · · · · ·			
YES NO						
13. ADDITIONAL SOLICITATION REQUIREMENTS:						
a Sealed offers in original and4 copies	to perform the work require	ed are	due at the place sp	ecified in I	tem 8 by 09:00	(hour)
local time 09/30/2018 (date). If this	s is a sealed bid solicitation,	offers	s will be publicly ope	ened at tha	at time. Sealed envel	opes
containing offers shall be marked to show the offer						
Containing offers shall be marked to show the offer	oror o name and address, lit	io auil	Addion Humber, and	a tine date	and time offers are t	JO.
b. An offer guarantee x is, is not requ	uired.					
c. All offers are subject to the (1) work requirements	, and (2) other provisions ar	nd cla	uses incorporated ir	the solicit	tation in full text or by	reference.
· · · · · · ·					•	
d Offers providing less than 30 calendar	days for Government accep	tance	after the date offers	are due w	vill not be considered	and will be rejected.

	OFFER (Must be ful	lly complete	ed by offero	r)			
			15. TELEPHONE NUMBER (Include area code)				
		16. REMITTAN	CE ADDRESS (Include only if d	ifferent than	Item 14.)	
CODE	DE						
CODE FACILITY CO 17. The offeror agrees to perform the work required at the		accordance with	the terms of this	s solicitation, if the	nis offer is ac	ccepted	
by the Government in writing withincalend	ar days after the date offers ar	e due. (Insert a	ny number equa	nl to or greater th	an the minin	num requirement	
stated in Item 13d. Failure to insert any number means	the offeror accepts the minima	um in Item 13d.,)				
AMOUNTS							
18. The offeror agrees to furnish any required	performance and paym	ent bonds.					
(The offeror act	19. ACKNOWLEDG cnowledges receipt of amendm				of each)		
AMENDMENT NUMBER	nowledges receipt of amendin	erits to the solic	Shadon give no	imber and date	or each)		
DATE.							
20a. NAME AND TITLE OF PERSON AUTHORIZED TO	SIGN OFFER (Type or print)	20b. SIGNATUI	RE		1	20c. OFFER D	DATE
	AWARD (To be con	mpleted by (Government)				
21. ITEMS ACCEPTED:	7117112 (10 50 00)	npiotou by c	<u> </u>				
22. AMOUNT	23. ACCOUNTING AND	APPROPRIA	TION DATA				
24. SUBMIT INVOICES TO ADDRESS SHOWN II	│ N、 ITEM	DE OTHER	THAN FILL	AND ODEN C	OMBETITI	ON PURSUANT	
(4 copies unless otherwise specified)	TI LIVI		S.C. 2304(c)(. 253(c)()	10
26. ADMINISTERED BY CODE		27. PAYMENT WILL BE MADE BY					
CONTRACT	ING OFFICER WILL COM	 	1 28 OR 29 AS	S APPLICABL	E		
28. NEGOTIATED AGREEMENT (Contract						sign this docum	ent.) Your
document and return copies to issuing office.) Contractor agrees to furnish and deliver all items or perform all work, requisitions identified on this form and any continuation sheets for the consideration slated in this contract. The rights and obligations of the parties to this contract shall be governed by (a) this contract award, (b) the solicitation, and (c) the clauses, representations, certifications, and specifications or incorporated by reference in or attached to this contract.			sists of (a) the C				
30A. NAME AND TITLE OF CONTRACTOR OR I TO SIGN (Type or print)	PERSON AUTHORIZED	31A. NAME	OF CONTRA	ACTING OFFIC	CER (Type	e or print)	
	T	_					
30B. SIGNATURE	30C. DATE	31B. UNITI	ED STATES C	PF AMERICA,	RA	31C. AWARD D	ATE

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REQUEST FOR QUOTATIONS - CONSTRUCTION

A. PRICE

The Contractor shall complete all work, including furnishing all labor, material, equipment and services required under this purchase order for the following firm fixed price and within the time specified. This price shall include all labor, materials, all insurances, overhead and profit.

A.1 VALUE ADDED TAX

<u>VALUE ADDED TAX (VAT)</u>. The Contractor shall include VAT as a separate charge on the Invoice and as a separate line item in Section B.

Total Cost of Service	
18% IGV Tax	
Total Contract Cost	

B. <u>SCOPE OF WORK</u>

The character and scope of the work are set forth in the contract. The Contractor shall furnish and install all materials required by this contract.

In case of differences between small and large-scale drawings, the latter will govern. Where a portion of the work is drawn in detail and the remainder of the work is indicated in outline, the parts drawn in detail shall apply also to all other portions of the work.

Please refer to Attachment 1.

C. PACKAGING AND MARKING (RESERVED)

D. INSPECTION AND ACCEPTANCE

The COR, or his/her authorized representatives, will inspect from time to time the services being performed and the supplies furnished to determine whether work is being performed in a satisfactory manner, and that all supplies are of acceptable quality and standards.

The Contractor shall be responsible for any countermeasures or corrective action, within the scope of this contract, which may be required by the Contracting Officer as a result of such inspection.

D.1 SUBSTANTIAL COMPLETION

- (a) "Substantial Completion" means the stage in the progress of the work as determined and certified by the Contracting Officer in writing to the Contractor, on which the work (or a portion designated by the Government) is sufficiently complete and satisfactory. Substantial completion means that the property may be occupied or used for the purpose for which it is intended, and only minor items such as touch-up, adjustments, and minor replacements or installations remain to be completed or corrected which:
 - (1) do not interfere with the intended occupancy or utilization of the work, and
 - (2) can be completed or corrected within the time period required for final completion.
- (b) The "date of substantial completion" means the date determined by the Contracting Officer or authorized Government representative as of which substantial completion of the work has been achieved.

Use and Possession upon Substantial Completion - The Government shall have the right to take possession of and use the work upon substantial completion. Upon notice by the Contractor that the work is substantially complete (a Request for Substantial Completion) and an inspection by the Contracting Officer or an authorized Government representative (including any required tests), the Contracting Officer shall furnish the Contractor a Certificate of Substantial Completion. The certificate will be accompanied by a Schedule of Defects listing items of work remaining to be performed, completed or corrected before final completion and acceptance. Failure of the Contracting Officer to list any item of work shall not relieve the Contractor of responsibility for complying with the terms of the contract. The Government's possession or use upon substantial completion shall not be deemed an acceptance of any work under the contract.

D.2 FINAL COMPLETION AND ACCEPTANCE

D.2.1 "Final completion and acceptance" means the stage in the progress of the work as determined by the Contracting Officer and confirmed in writing to the Contractor, at which

all work required under the contract has been completed in a satisfactory manner, subject to the discovery of defects after final completion, and except for items specifically excluded in the notice of final acceptance.

- D.2.2 The "date of final completion and acceptance" means the date determined by the Contracting Officer when final completion of the work has been achieved, as indicated by written notice to the Contractor.
- D.2.3 <u>FINAL INSPECTION AND TESTS</u>. The Contractor shall give the Contracting Officer at least five (5) days advance written notice of the date when the work will be fully completed and ready for final inspection and tests. Final inspection and tests will be started not later than the date specified in the notice unless the Contracting Officer determines that the work is not ready for final inspection and so informs the Contractor.
- D.2.4 <u>FINAL ACCEPTANCE</u>. If the Contracting Officer is satisfied that the work under the contract is complete (with the exception of continuing obligations), the Contracting Officer shall issue to the Contractor a notice of final acceptance and make final payment upon:
 - Satisfactory completion of all required tests,
 - A final inspection that all items by the Contracting Officer listed in the Schedule of Defects have been completed or corrected and that the work is finally complete (subject to the discovery of defects after final completion), and
 - Submittal by the Contractor of all documents and other items required upon completion of the work, including a final request for payment (Request for Final Acceptance).

E. DELIVERIES OR PERFORMANCE

52.211-10 COMMENCEMENT, PROSECUTION, AND COMPLETION OF WORK (APR 1984)

The Contractor shall be required to:

- (a) commence work under this contract within 10 calendar days after the date the Contractor receives the notice to proceed,
- (b) prosecute the work diligently, and,
- (c) Complete the entire work ready for use not later than 182 working days.

The time stated for completion shall include final cleanup of the premises.

52.211-12 LIQUIDATED DAMAGES - CONSTRUCTION (SEPT 2000)

(a) If the Contractor fails to complete the work within the time specified in the contract, or any extension, the Contractor shall pay liquidated damages to the Government in the amount of \$ 250.00 for each calendar day of delay until the work is completed or accepted.

(b) If the Government terminates the Contractor's right to proceed, liquidated damages will continue to accrue until the work is completed. These liquidated damages are in addition to excess costs of repurchase under the Default clause.

CONTRACTOR'S SUBMISSION OF CONSTRUCTION SCHEDULES

- (a) The time for submission of the schedules referenced in FAR 52.236-15, "Schedules for Construction Contracts", paragraph (a), is hereby modified to reflect the due date for submission as " 10 calendar days after receipt of an executed contract".
- (b) These schedules shall include the time by which shop drawings, product data, samples and other submittals required by the contract will be submitted for approval.
- (c) The Contractor shall revise such schedules (1) to account for the actual progress of the work, (2) to reflect approved adjustments in the performance schedule, and (3) as required by the Contracting Officer to achieve coordination with work by the Government and any separate contractors used by the Government. The Contractor shall submit a schedule, which sequences work so as to minimize disruption at the job site.
- (d) All deliverables shall be in the English language and any system of dimensions (English or metric) shown shall be consistent with that used in the contract. No extension of time shall be allowed due to delay by the Government in approving such deliverables if the Contractor has failed to act promptly and responsively in submitting its deliverables. The Contractor shall identify each deliverable as required by the contract.
- (e) Acceptance of Schedule: When the Government has accepted any time schedule; it shall be binding upon the Contractor. The completion date is fixed and may be extended only by a written contract modification signed by the Contracting Officer. Acceptance or approval of any schedule or revision thereof by the Government shall not:
 - (1) Extend the completion date or obligate the Government to do so,
 - (2) Constitute acceptance or approval of any delay, or
 - (3) Excuse the Contractor from or relieve the Contractor of its obligation to maintain the progress of the work and achieve final completion by the established completion date.

NOTICE OF DELAY

If the Contractor receives a notice of any change in the work, or if any other conditions arise which are likely to cause or are actually causing delays which the Contractor believes may result in late completion of the project, the Contractor shall notify the Contracting Officer. The Contractor's notice shall state the effect, if any, of such change or other conditions upon the approved schedule, and shall state in what respects, if any, the relevant schedule or the completion date should be revised. The Contractor shall give such notice promptly, not more than ten (10) days after the first event giving rise to the delay or prospective delay. Only the Contracting Officer may make revisions to the approved time schedule.

NOTICE TO PROCEED

- (a) After receiving and accepting any bonds or evidence of insurance, the Contracting Officer will provide the Contractor a Notice to Proceed. The Contractor must then prosecute the work, commencing and completing performance not later than the time period established in the contract.
- (b) It is possible that the Contracting Officer may elect to issue the Notice to Proceed before receipt and acceptance of any bonds or evidence of insurance. Issuance of a Notice to Proceed by the Government before receipt of the required bonds or insurance certificates or policies shall not be a waiver of the requirement to furnish these documents.

WORKING HOURS

All work shall be performed during Monday through Saturday from 7:00 a.m. to 6:00 p.m. Other hours, if requested by the Contractor, may be approved by the Contracting Officer's Representative (COR). The Contractor shall give 24 hours in advance to COR who will consider any deviation from the hours identified above. Changes in work hours, initiated by the Contractor, will not be a cause for a price increase.

PRECONSTRUCTION CONFERENCE

A preconstruction conference will be held 10 days after contract award at the Embassy of the United States, Av. Encalada Cdra. 17 s/n Monterrico, Santiago de Surco to discuss the schedule, submittals, notice to proceed, mobilization and other important issues that effect construction progress. See FAR 52.236-26, Preconstruction Conference.

DELIVERABLES - The following items shall be delivered under this contract:				
<u>Description</u>	Quantity	<u>Deliver Date</u>	<u>Deliver To</u>	
Section G. Securities/Insurance	1	10 days after award	СО	
Section E. Construction Schedule	1	10 days after award	COR	
Section E. Preconstruction Conference	1	10 days after award	COR	
Section G. Personnel Biographies	1	10 days after award	COR	
		Last calendar day		
Section F. Payment Request	1	of each month	COR	
		15 days before		
Section D. Request for Substantial Completion	1	inspection	COR	
		5 days before		
Section D. Request for Final Acceptance	1	inspection	COR	

F. ADMINISTRATIVE DATA

652.242-70 CONTRACTING OFFICER'S REPRESENTATIVE (COR) (AUG 1999)

- (a) The Contracting Officer may designate in writing one or more Government employees, by name or position title, to take action for the Contracting Officer under this contract. Each designee shall be identified as a Contracting Officer's Representative (COR). Such designation(s) shall specify the scope and limitations of the authority so delegated; provided, that the designee shall not change the terms or conditions of the contract, unless the COR is a warranted Contracting Officer and this authority is delegated in the designation.
 - (b) The COR for this contract is the FAC Mechanical Engineer.

<u>Payment</u>: The Contractor's attention is directed to Section H, 52.232-5, "Payments Under Fixed-Price Construction Contracts". The following elaborates on the information contained in that clause.

Requests for payment, may be made no more frequently than monthly. Payment requests shall cover the value of labor and materials completed and in place, including a prorated portion of overhead and profit.

After receipt of the Contractor's request for payment, and on the basis of an inspection of the work, the Contracting Officer shall make a determination as to the amount, which is then due. If the Contracting Officer does not approve payment of the full amount applied for, less the retainage allowed by in 52.232-5, the Contracting Officer shall advise the Contractor as to the reasons.

Under the authority of 52.232-27(a), the 14 day period identified in FAR 52.232-27(a)(1)(i)(A) is hereby changed to 30 days.

Embassy of the United States of America – FMO/DBO Av. Lima Polo cdra. 2 s/n. Monterrico, Santiago de Surco

RUC: 20293588776

Working Hours: Monday thru Friday from 09:00 to 12:00 hrs.

The Contractor shall show Value Added Tax (VAT) as a separate item on invoices submitted for payment.

G. SPECIAL REQUIREMENTS

G.1.0 <u>PERFORMANCE/PAYMENT PROTECTION</u> - The Contractor shall furnish some form of payment protection as described in 52.228-13 in the amount of 50% of the contract price.

Refer to Attachment 7

- G.1.1 The Contractor shall provide the information required by the paragraph above within ten (10) calendar days after award. Failure to timely submit the required security may result in rescinding or termination of the contract by the Government. If the contract is terminated, the Contractor will be liable for those costs as described in FAR 52.249-10, Default (Fixed-Price Construction), which is included in this purchase order.
- G.1.2 The bonds or alternate performance security shall guarantee the Contractor's execution and completion of the work within the contract time. This security shall also guarantee the correction of any defects after completion, the payment of all wages and other amounts payable by the Contractor under its subcontracts or for labor and materials, and the satisfaction or removal of any liens or encumbrances placed on the work.
- G.1.3 The required securities shall remain in effect in the full amount required until final acceptance of the project by the Government. Upon final acceptance, the penal sum of the performance security shall be reduced to 10% of the contract price. The security shall remain in effect for one year after the date of final completion and acceptance, and the Contractor shall pay any premium required for the entire period of coverage.
- G.2.0 <u>INSURANCE</u> The Contractor is required by FAR 52.228-5, "Insurance Work on a Government Installation" to provide whatever insurance is legally necessary. The Contractor shall at its own expense provide and maintain during the entire performance period the following insurance amounts:
- G.2.1 <u>GENERAL LIABILITY</u> (includes premises/operations, collapse hazard, products, completed operations, contractual, independent contractors, broad form property damage, personal injury):

(1) BODILY INJURY, ON OR OFF THE SITE		
Per Occurrence S/. 35,000.00		
(2) PROPERTY DAMAGE, ON OR OFF THE SITE, IN U.S. DOLLARS		
The Contracting Officer will evaluate the property		
Per Occurrence	damage and will determine the cost.	

G.2.2 The foregoing types and amounts of insurance are the minimums required. The Contractor shall obtain any other types of insurance required by local law or that are ordinarily

or customarily obtained in the location of the work. The limit of such insurance shall be as provided by law or sufficient to meet normal and customary claims.

- G.2.3 The Contractor agrees that the Government shall not be responsible for personal injuries or for damages to any property of the Contractor, its officers, agents, servants, and employees, or any other person, arising from and incident to the Contractor's performance of this contract. The Contractor shall hold harmless and indemnify the Government from any and all claims arising therefrom, except in the instance of gross negligence on the part of the Government.
- G.2.4 The Contractor shall obtain adequate insurance for damage to, or theft of, materials and equipment in insurance coverage for loose transit to the site or in storage on or off the site.
- G.2.5 The general liability policy required of the Contractor shall name "the United States of America, acting by and through the Department of State", as an additional insured with respect to operations performed under this contract.

G.3.0 DOCUMENT DESCRIPTIONS

- G.3.1 <u>SUPPLEMENTAL DOCUMENTS</u>: The Contracting Officer shall furnish from time to time such detailed drawings and other information as is considered necessary, in the opinion of the Contracting Officer, to interpret, clarify, supplement, or correct inconsistencies, errors or omissions in the Contract documents, or to describe minor changes in the work not involving an increase in the contract price or extension of the contract time. The Contractor shall comply with the requirements of the supplemental documents, and unless prompt objection is made by the Contractor within 20 days, their issuance shall not provide for any claim for an increase in the Contract price or an extension of contract time.
 - G.3.1.1. <u>RECORD DOCUMENTS</u>. The Contractor shall maintain at the project site:
 - (1) a current marked set of Contract drawings and specifications indicating all interpretations and clarification, contract modifications, change orders, or any other departure from the contract requirements approved by the Contracting Officer; and,
 - (2) a complete set of record shop drawings, product data, samples and other submittals as approved by the Contracting Officer.
 - G.3.1.2. "As-Built" Documents: After final completion of the work, but before final acceptance thereof, the Contractor shall provide:

- a complete set of "as-built" drawings, based upon the record set of drawings, marked to show the details of construction as actually accomplished; and,
- (2) record shop drawings and other submittals, in the number and form as required by the specifications.
- G.4.0 <u>LAWS AND REGULATIONS</u> The Contractor shall, without additional expense to the Government, be responsible for complying with all laws, codes, ordinances, and regulations applicable to the performance of the work, including those of the host country, and with the lawful orders of any governmental authority having jurisdiction. Host country authorities may not enter the construction site without the permission of the Contracting Officer. Unless otherwise directed by the Contracting Officer, the Contractor shall comply with the more stringent of the requirements of such laws, regulations and orders and of the contract. In the event of a conflict between the contract and such laws, regulations and orders, the Contractor shall promptly advise the Contracting Officer of the conflict and of the Contractor's proposed course of action for resolution by the Contracting Officer.
- G.4.1 The Contractor shall comply with all local labor laws, regulations, customs and practices pertaining to labor, safety, and similar matters, to the extent that such compliance is not inconsistent with the requirements of this contract.
- G.4.2 The Contractor shall give written assurance to the Contracting Officer that all subcontractors and others performing work on or for the project have obtained all requisite licenses and permits.
- G.4.3 The Contractor shall submit proper documentation and evidence satisfactory to the Contracting Officer of compliance with this clause.
- G.5.0 <u>CONSTRUCTION PERSONNEL</u> The Contractor shall maintain discipline at the site and at all times take all reasonable precautions to prevent any unlawful, riotous, or disorderly conduct by or among those employed at the site. The Contractor shall ensure the preservation of peace and protection of persons and property in the neighborhood of the project against such action. The Contracting Officer may require, in writing that the Contractor remove from the work any employee that the Contracting Officer deems incompetent, careless, insubordinate or otherwise objectionable, or whose continued employment on the project is deemed by the Contracting Officer to be contrary to the Government's interests.
- G.5.1 If the Contractor has knowledge that any actual or potential labor dispute is delaying or threatens to delay the timely performance of this contract, the Contractor shall immediately give notice, including all relevant information, to the Contracting Officer.
- G.5.2 After award, the Contractor has ten calendar days to submit to the Contracting Officer a list of workers and supervisors assigned to this project for the Government to conduct all necessary security checks. It is anticipated that security checks will take 25 days

approximately to perform. For each individual the list shall include:

Full Name
Place and Date of Birth
Current Address
DNI number
Full name of Father and Mother

Failure to provide any of the above information may be considered grounds for rejection and/or resubmittal of the application. Once the Government has completed the security screening and approved the applicants a badge will be provided to the individual for access to the site. This badge may be revoked at any time due to the falsification of data, or misconduct on site.

- G.5.3 The Contractor shall provide an English speaking supervisor on site at all times. This position is considered as key personnel under this purchase order.
- G.6.0 Materials and Equipment All materials and equipment incorporated into the work shall be new and for the purpose intended, unless otherwise specified. All workmanship shall be of good quality and performed in a skillful manner that will withstand inspection by the Contracting Officer.

G.7.0 SPECIAL WARRANTIES

- G.7.1 Any special warranties that may be required under the contract shall be subject to the stipulations set forth in 52.246-21, "Warranty of Construction", as long as they are not in conflict.
- G.7.2 The Contractor shall obtain and furnish to the Government all information required to make any subcontractor's, manufacturer's, or supplier's guarantee or warranty legally binding and effective. The Contractor shall submit both the information and the guarantee or warranty to the Government in sufficient time to permit the Government to meet any time limit specified in the guarantee or warranty, but not later than completion and acceptance of all work under this contract.

G.8.0 EQUITABLE ADJUSTMENTS

Any circumstance for which the contract provides an equitable adjustment that causes a change within the meaning of paragraph (a) of the "Changes" clause shall be treated as a change under that clause; provided, that the Contractor gives the Contracting Officer prompt written notice (within 20 days) stating:

(a) the date, circumstances, and applicable contract clause authorizing an equitable adjustment and

(b) that the Contractor regards the event as a changed condition for which an equitable adjustment is allowed under the contract

The Contractor shall provide written notice of a differing site condition within 10 calendar days of occurrence following FAR 52.236-2, Differing Site Conditions.

G.9.0 ZONING APPROVALS AND PERMITS

The Government shall be responsible for:

- obtaining proper zoning or other land use control approval for the project
- obtaining the approval of the Contracting Drawings and Specifications
- paying fees due for the foregoing; and,
- for obtaining and paying for the initial building permits.

H. <u>CLAUSES</u>

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es): http://www.acquisition.gov/far/ or http://farsite.hill.af.mil/vffara.htm. Please note these addresses are subject to change.

If the Federal Acquisition Regulation (FAR) is not available at the locations indicated above, use the Department of State Acquisition website at https://www.ecfr.gov/cgi-bin/text-idx?SID=2e978208d0d2aa44fb9502725ecac4e5&mc=true&tpl=/ecfrbrowse/Title48/48chapter6.

https://www.ecfr.gov/cgi-bin/text-idx?SID=2e978208d0d2aa44fb9502725ecac4e5&mc=true&tpl=/ecfrbrowse/Title48/48chapter6.

<a href="https://www.ecfr.gov/cgi-bin/text-idx?SID=2e978208d0d2aa44fb9502725ecac4e5&mc=true&tpl=/ecfrbrowse/Title48/48chapter6.

<a href="https://www.ecfr.gov/cgi-bin/text-idx?SID=2e978208d0d2aa44fb9502725ecac4e5&mc=true&tpl=/ecfrbrowse/Title48/48chapter6.

<a href="https://www.ecfr.gov/cgi-bin/text-idx?SID=2e978208d0d2aa44fb9502725ecac4e5&mc=true&tpl=/ecfrbrowse/Title48/48chapter6.

<a href="https://www.ecfr.gov/cgi-bin/text-idx?SID=2e978208d0d2aa44fb9502725ecac4e5&mc=true&tpl=/ecfrbrowse/Title48/48chapter6.

https://www.ecfr.gov/cgi-bin/text-idx?SID=2e978208d0d2aa44fb9502725ecac4e5&mc=true&tpl=/ecfrbrowse/Title48/48chapter6.

<a href="https://www.ecfr.gov/cgi-bin/text-idx.gov/cgi-bin/

The following Federal Acquisition Regulation clause(s) is/are incorporated by reference (48 CFR CH. 1):

CLAUSE	TITLE AND DATE
52.202-1	DEFINITIONS (NOV 2013)
52.204-9	PERSONAL IDENTITY VERIFICATION OF CONTRACTOR PERSONNEL (JAN 2011)
52.204-10	REPORTING EXECUTIVE COMPENSATION AND FIRST-TIER SUBCONTRACT AWARDS (OCT 2015)
52.204-13	SYSTEM FOR AWARD MANAGEMENT MAINTENANCE (OCT 2016)
52.204-18	COMMERCIAL AND GOVERNMENT ENTITY CODE MAINTENANCE (JUL 2016)
52.204-19	INCORPORATION BY REFERENCE OF REPRESENTATIONS AND CERTIFICATIONS (DEC 2014)
52.209-6	PROTECTING THE GOVERNMENT'S INTEREST WHEN SUBCONTRACTING WITH CONTRACTORS DEBARRED, SUSPENDED OR PROPOSED FOR DEBARMENT (OCT 2015)
52.209-9	UPDATES OF PUBLICLY AVAILABLE INFORMATION REGARDING RESPONSIBILITY MATTERS (JUL 2013)
52.213-4	TERMS AND CONDITIONS-SIMPLIFIED ACQUISITIONS (OTHER THAN COMMERCIAL ITEMS) (JUL 2018)
52.216-7	ALLOWABLE COST AND PAYMENT (JUN 2013)

52.222-1	NOTICE TO THE GOVERNMENT OF LABOR DISPUTES (FEB 1997)		
52.222-19	CHILD LABOR – COOPERATION WITH AUTHORITIES AND REMEDIES (JAN 2018)		
52.222-50	COMBATING TRAFFICKING IN PERSONS (FEB 2009)		
52.223-18	ENCOURAGING CONTRACTOR POLICIES TO BAN TEXT MESSAGING WHILE DRIVING (AUG 2011)		
52.225-13	RESTRICTIONS ON CERTAIN FOREIGN PURCHASES (JUNE 2008)		
52.225-14	INCONSISTENCY BETWEEN ENGLISH VERSION AND TRANSLATION OF CONTRACT (FEB 2000)		
52.228-4	WORKERS' COMPENSATION AND WAR-HAZARD INSURANCE OVERSEAS (APR 1984)		
52.228-5	INSURANCE - WORK ON A GOVERNMENT INSTALLATION (JAN 1997)		
52.228-11	PLEDGES OF ASSETS (JAN 2012)		
52.228-13	ALTERNATIVE PAYMENT PROTECTION (JULY 2000)		
52.228-14	IRREVOCABLE LETTER OF CREDIT (NOV 2014)		
52.229-6	TAXES - FOREIGN FIXED-PRICE CONTRACTS (FEB 2013)		
52.229-7	TAXES- FIXED PRICE CONTRACTS WITH FOREIGN GOVERNMENTS (FEB 2013)		
52.232-5	PAYMENTS UNDER FIXED-PRICE CONSTRUCTION CONTRACTS (MAY 2014)		
52.232-8	DISCOUNTS FOR PROMPT PAYMENT (FEB 2002)		
52.232-11	EXTRAS (APR 1984)		
52.232-18	AVAILABILITY OF FUNDS (APR 1984)		
52.232-22	LIMITATION OF FUNDS (APR 1984)		
52.232-25	PROMPT PAYMENT (JULY 2013)		
52.232-27	PROMPT PAYMENT FOR CONSTRUCTION CONTRACTS (MAY 2014)		

52.232-33	PAYMENT BY ELECTRONIC FUNDS TRANSFER - SYSTEM FOR AWARD MANAGEMENT (JULY 2013)
52.232-34	PAYMENT BY ELECTRONIC FUNDS TRANSFER – OTHER THAN SYSTEM FOR AWARD MANAGEMENT (JULY 2013)
52.233-1	DISPUTES (MAY 2014) Alternate I (DEC 1991)
52.233-3	PROTEST AFTER AWARD (AUG 1996)
52.236-2	DIFFERING SITE CONDITIONS (APR 1984)
52.236-3	SITE INVESTIGATION AND CONDITIONS AFFECTING THE WORK (APR 1984)
52.236-5	MATERIAL AND WORKMANSHIP (APR 1984)
52.236-6	SUPERINTENDENCE BY THE CONTRACTOR (APR 1984)
52.236-7	PERMITS AND RESPONSIBILITIES (NOV 1991)
52.236-8	OTHER CONTRACTS (APR 1984)
52.236-9	PROTECTION OF EXISTING VEGETATION, STRUCTURES, EQUIPMENT, UTILITIES, AND IMPROVEMENTS (APR 1984)
52.236-10	OPERATIONS AND STORAGE AREAS (APR 1984)
52.236-11	USE AND POSSESSION PRIOR TO COMPLETION (APR 1984)
52.236-12	CLEANING UP (APR 1984)
52.236-13	ACCIDENT PREVENTION (NOV 1991)
52.236-14	AVAILABILITY AND USE OF UTILITY SERVICES (APR 1984)
52.236-15	SCHEDULES FOR CONSTRUCTION CONTRACTS (APR 1984)
52.236-21	SPECIFICATIONS AND DRAWINGS FOR CONSTRUCTION (FEB 1997)
52.236-26	PRECONSTRUCTION CONFERENCE (FEB 1995)
52.242-14	SUSPENSION OF WORK (APR 1984)

52.243-4	CHANGES (JUN 2007)
52.243-5	CHANGES AND CHANGED CONDITIONS (APR 1984)
52.244-6	SUBCONTRACTS FOR COMMERCIAL ITEMS (NOV 2017)
52.245-2	GOVERNMENT PROPERTY INSTALLATION OPERATION SERVICES (APR 2012)
52.245-9	USE AND CHARGES (APR 2012)
52.246-12	INSPECTION OF CONSTRUCTION (AUG 1996)
52.246-17	WARRANTY OF SUPPLIES OF A NONCOMPLEX NATURE (JUN 2003)
52.246-21	WARRANTY OF CONSTRUCTION (MAR 1994)
52.249-2	TERMINATION FOR CONVENIENCE OF THE GOVERNMENT (FIXED-PRICE) (APR 2012) Alternate I (SEPT 1996)
52.249-10	DEFAULT (FIXED-PRICE CONSTRUCTION) (APR 1984)
52.249-14	EXCUSABLE DELAYS (APR 1984)

The following Department of State Acquisition Regulation (DOSAR) clause(s) is/are set forth in full text:

652.204-70 DEPARTMENT OF STATE PERSONAL IDENTIFICATION CARD ISSUANCE PROCEDURES (MAY 2011)

- (a) The Contractor shall comply with the Department of State (DOS) Personal Identification Card Issuance Procedures for all employees performing under this contract who require frequent and continuing access to DOS facilities, or information systems. The Contractor shall insert this clause in all subcontracts when the subcontractor's employees will require frequent and continuing access to DOS facilities, or information systems.
- (b) The DOS Personal Identification Card Issuance Procedures may be accessed at http://www.state.gov/m/ds/rls/rpt/c21664.htm.

(End of clause)

652.229-71 PERSONAL PROPERTY DISPOSITION AT POSTS ABROAD (AUG 1999)

Regulations at 22 CFR Part 136 require that U.S. Government employees and their families do not profit personally from sales or other transactions with persons who are not themselves entitled to exemption from import restrictions, duties, or taxes. Should the Contractor experience importation or tax privileges in a foreign country because of its contractual relationship to the United States Government, the Contractor shall observe the

requirements of 22 CFR Part 136 and all policies, rules, and procedures issued by the chief of mission in that foreign country.

(End of clause)

CONTRACTOR IDENTIFICATION (JULY 2008)

Contract performance may require contractor personnel to attend meetings with government personnel and the public, work within government offices, and/or utilize government email.

Contractor personnel must take the following actions to identify themselves as non-federal employees:

- 1) Use an e-mail signature block that shows name, the office being supported and company affiliation (e.g. "John Smith, Office of Human Resources, ACME Corporation Support Contractor");
- 2) Clearly identify themselves and their contractor affiliation in meetings;
- 3) Identify their contractor affiliation in Departmental e-mail and phone listings whenever contractor personnel are included in those listings; and
- 4) Contractor personnel may not utilize Department of State logos or indicia on business cards.

(End of clause)

652.236-70 ADDITIONAL SAFETY MEASURES (OCT 2017)

In addition to the safety/accident prevention requirements of FAR 52.236-13, Accident Prevention Alternate I, the contractor shall comply with the following additional safety measures.

- (a) *High Risk Activities*. If the project contains any of the following high risk activities, the contractor shall follow the section in the latest edition, as of the date of the solicitation, of the U.S. Army Corps of Engineers Safety and Health manual, EM 385-1-1, that corresponds to the high risk activity. Before work may proceed, the contractor must obtain approval from the COR of the written safety plan required by FAR 52.236-13, Accident Prevention Alternate I (see paragraph (f) below), containing specific hazard mitigation and control techniques.
 - (1) Scaffolding;
 - (2) Work at heights above 1.8 meters;
 - (3) Trenching or other excavation greater than one (1) meter in depth;
 - (4) Earth-moving equipment and other large vehicles;
 - (5) Cranes and rigging;
 - (6) Welding or cutting and other hot work;
 - (7) Partial or total demolition of a structure;
- (8) Temporary wiring, use of portable electric tools, or other recognized electrical hazards. Temporary wiring and portable electric tools require the use of a ground fault circuit

interrupter (GFCI) in the affected circuits; other electrical hazards may also require the use of a GFCI;

- (9) Work in confined spaces (limited exits, potential for oxygen less than 19.5 percent or combustible atmosphere, potential for solid or liquid engulfment, or other hazards considered to be immediately dangerous to life or health such as water tanks, transformer vaults, sewers, cisterns, etc.);
- (10) Hazardous materials a material with a physical or health hazard including but not limited to, flammable, explosive, corrosive, toxic, reactive or unstable, or any operations, which creates any kind of contamination inside an occupied building such as dust from demolition activities, paints, solvents, etc.; or
- (11) Hazardous noise levels as required in EM 385-1 Section 5B or local standards if more restrictive.
- (b) Safety and Health Requirements. The contractor and all subcontractors shall comply with the latest edition of the U.S. Army Corps of Engineers Safety and Health manual EM 385-1-1, or OSHA 29 CFR parts 1910 or 1926 if no EM 385-1-1 requirements are applicable, and the accepted contractor's written safety program.
- (c) Mishap Reporting. The contractor is required to report **immediately** all mishaps to the COR and the contracting officer. A "mishap" is any event causing injury, disease or illness, death, material loss or property damage, or incident causing environmental contamination. The mishap reporting requirement shall include fires, explosions, hazardous materials contamination, and other similar incidents that may threaten people, property, and equipment.
- (d) *Records*. The contractor shall maintain an accurate record on all mishaps incident to work performed under this contract resulting in death, traumatic injury, occupational disease, or damage to or theft of property, materials, supplies, or equipment. The contractor shall report this data in the manner prescribed by the contracting officer.
- (e) *Subcontracts*. The contractor shall insert this clause, including this paragraph (e), with appropriate changes in the designation of the parties, in subcontracts.
- (f) Written program. The plan required by paragraph (f)(1) of the clause entitled "Accident Prevention Alternate I" shall be known as the Site Safety and Health Plan (SSHP) and shall address any activities listed in paragraph (a) of this clause, or as otherwise required by the contracting officer/COR.
- (1) The SSHP shall be submitted at least 10 working days prior to commencing any activity at the site.

- (2) The plan must address developing activity hazard analyses (AHAs) for specific tasks. The AHAs shall define the activities being performed and identify the work sequences, the specific anticipated hazards, site conditions, equipment, materials, and the control measures to be implemented to eliminate or reduce each hazard to an acceptable level of risk. Work shall not begin until the AHA for the work activity has been accepted by the COR and discussed with all engaged in the activity, including the Contractor, subcontractor(s), and Government on-site representatives.
- (3) The names of the Competent/Qualified Person(s) required for a particular activity (for example, excavations, scaffolding, fall protection, other activities as specified by EM 385-1-1) shall be identified and included in the AHA. Proof of their competency/qualification shall be submitted to the contracting officer or COR for acceptance prior to the start of that work activity. The AHA shall be reviewed and modified as necessary to address changing site conditions, operations, or change of competent/qualified person(s).

(End of clause)

652.242-73 AUTHORIZATION AND PERFORMANCE (AUG 1999)

- (a) The Contractor warrants the following:
 - (1) That is has obtained authorization to operate and do business in the country or countries in which this contract will be performed;
 - (2) That is has obtained all necessary licenses and permits required to perform this contract; and,
 - (3) That it shall comply fully with all laws, decrees, labor standards, and regulations of said country or countries during the performance of this contract.
- (b) If the party actually performing the work will be a subcontractor or joint venture partner, then such subcontractor or joint venture partner agrees to the requirements of paragraph (a) of this clause.

(End of clause)

652.243-70 NOTICES (AUG 1999)

Any notice or request relating to this contract given by either party to the other shall be in writing. Said notice or request shall be mailed or delivered by hand to the other party at the address provided in the schedule of the contract. All modifications to the contract must be made in writing by the Contracting Officer.

(End of clause)

I. <u>LIST OF ATTACHMENTS</u>

ATTACHMENT		
NUMBER	DESCRIPTION OF ATTACHMENT	NUMBER OF PAGES
Attachment 1	Statement of Work	68
Attachment 2	Contractor Safety Policy	4
Attachment 3	Price Schedule Breakdown	1
Attachment 4	Proposed Performance Chart Form	1
Attachment 5	Daily Construction Report	1
Attachment 6	Shop Drawing Material Approval Request	2
Attachment 7	Letter of Bank Guaranty	2
Attachment 8	Request for Project Progress Payment	2

J. QUOTATION INFORMATION

A. **QUALIFICATIONS OF OFFERORS**

Offerors/quoters must be technically qualified and financially responsible to perform the work described in this solicitation. Also, offerors/quoters shall have an active registration in the System for Award Management (SAM). At a minimum, each Offeror/Quoter must meet the following requirements:

- (1) Be able to understand written and spoken English;
- (2) Have an established business with a permanent address and telephone listing:
- (3) Be able to demonstrate prior construction experience with suitable references;
- (4) Have the necessary personnel, equipment and financial resources available to perform the work;
- (5) Have all licenses and permits required by local law;
- (6) Meet all local insurance requirements;
- (7) Have the ability to obtain or to post adequate performance security, such as bonds, irrevocable letters of credit or guarantees issued by a reputable financial institution;
- (8) Have no adverse criminal record; and
- (9) Have no political or business affiliation, which could be considered contrary to the interests of the United States.

B. **SUBMISSION OF QUOTATIONS**

This solicitation is for the performance of the construction services described in SCOPE OF WORK, and the Attachments which are a part of this request for quotation.

Each quotation must consist of the following:

VOLUME	TITLE	NUMBER OF
		COPIES*
1	Standard Form 1442, Section A, and Attachment 3 (Price	4
	Schedule Breakdown)	
II	Attachment 4 in the form of a bar chart (Proposed	4
	Performance chart), Company Profile/References and other	
	information as required under Section J. Also, include proof of	
	System for Award Management (SAM) registration.	

Submit the complete quotation to the address indicated. If mailed, on Standard Form 1442, or if hand-delivered, use the address set forth below:

Embassy of the United States of America – Procurement Unit Av. Lima Polo cdra. 2 s/n., Santiago de Surco Working Hours: Monday thru Friday from 09:00 to 12:00 hrs.

Proposals should be submitted no later than September 30, 2018 at 09:00 hrs.

The Offeror/Quoter shall identify and explain/justify any deviations, exceptions, or conditional assumptions taken with respect to any of the instructions or requirements of this request for quotation in the appropriate volume of the offer.

Volume II: Performance schedule and Business Management/Technical Proposal.

- (a) Present the performance schedule in the form of a "bar chart" indicating when the various portions of the work will be commenced and completed within the required schedule. This bar chart shall be in sufficient detail to clearly show each segregable portion of work and its planned commencement and completion date.
- (b) The Business Management/Technical Proposal shall be in two parts, including the following information:

Proposed Work Information - Provide the following:

- (1) A list of the names, addresses and telephone numbers of the owners, partners, and principal officers of the Offeror;
 - (2) The name and address of the Offeror's field superintendent for this project;
- (3) A list of the names, addresses, and telephone numbers of subcontractors and principal materials suppliers to be used on the project, indicating what portions of the work will be performed by them; and,

Experience and Past Performance - List all contracts and subcontracts your company has held over the past three years for the same or similar work. Provide the following information for each contract and subcontract:

- (1) Customer's name, address, and telephone numbers of customer's lead contract and technical personnel;
 - (2) Contract number and type;
- (3) Date of the contract award place(s) of performance, and completion dates; Contract dollar value;
 - (4) Brief description of the work, including responsibilities; and
 - (5) Any litigation currently in process or occurring within last 5 years.

C. 52.236-27 SITE VISIT (CONSTRUCTION) (FEB 1995)

- (a) The clauses at 52.236-2, Differing Site Conditions, and 52.236-3, Site Investigations and Conditions Affecting the Work, will be included in any contract awarded as a result of this solicitation. Accordingly, offerors or quoters are urged and expected to inspect the site where the work will be performed.
 - (b) A site visit has been scheduled for August 24, 2018 at 10:00 pm.
 - (c) Participants will meet at Av. La Encalada cda. 17, s/n, Monterrico, Santiago de Surco

D. MAGNITUDE OF CONSTRUCTION PROJECT

It is anticipated that the range in price of this contract will be between \$100,000.00 and \$250,000.00.

E. <u>LATE QUOTATIONS</u>. Late quotations shall be handled in accordance with FAR.

F. 52.252-1 SOLICITATION PROVISIONS INCORPORATED BY REFERENCE (FEB 1998)

This contract incorporates the following provisions by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. The offeror is cautioned that the listed provisions may include blocks that must be completed by the offeror and submitted with its quotation or offer. In lieu of submitting the full text of those provisions, the offeror may identify the provision by paragraph identifier and provide the appropriate information with its quotation or offer.

Also, the full text of a solicitation provision may be accessed electronically at: http://acquisition.gov/far/index.html/ or http://farsite.hill.af.mil/vffara.htm . Please note these addresses are subject to change.

If the Federal Acquisition Regulation (FAR) is not available at the locations indicated above, use the Department of State Acquisition website at http://www.statebuy.state.gov to access the link to the FAR, or use of an Internet "search engine" (for example, Google, Yahoo or Excite) is suggested to obtain the latest location of the most current FAR.

The following Federal Acquisition Regulation provisions are incorporated by reference (48 CFR CH. 1):

PROVISION	TITLE AND DATE
52.204-7	SYSTEM FOR AWARD MANAGEMENT (OCT 2016)
52.204-16	COMMERCIAL AND GOVERNMENT ENTITY CODE REPORTING (JUL 2016)
52.214-34	SUBMISSION OF OFFERS IN THE ENGLISH LANGUAGE (APR 1991)
52.215-1	INSTRUCTIONS TO OFFERORSCOMPETITIVE ACQUISITION (JAN 2004)

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K. EVALUATION CRITERIA

Award will be made to the lowest priced, acceptable, responsible quoter. The Government reserves the right to reject quotations that are unreasonably low or high in price.

The Government will determine acceptability by assessing the offeror's compliance with the terms of the RFQ. The Government will determine responsibility by analyzing whether the apparent successful quoter complies with the requirements of FAR 9.1, including:

- ability to comply with the required performance period, taking into consideration all existing commercial and governmental business commitments;
- satisfactory record of integrity and business ethics;
- necessary organization, experience, and skills or the ability to obtain them;
- necessary equipment and facilities or the ability to obtain them; and
- otherwise, qualified and eligible to receive an award under applicable laws and regulations.

SECTION L - REPRESENTATIONS, CERTIFICATIONS AND OTHER STATEMENTS OF OFFERORS OR QUOTERS

L.1 52.204-3 TAXPAYER IDENTIFICATION (OCT 1998)

(a) Definitions.

"Common parent", as used in this provision, means that corporate entity that owns or controls an affiliated group of corporations that files its Federal income tax returns on a consolidated basis, and of which the offeror is a member.

"Taxpayer Identification Number (TIN)", as used in this provision, means the number required by the IRS to be used by the offeror in reporting income tax and other returns. The TIN may be either a Social Security Number or an Employer Identification Number.

- (b) All offerors must submit the information required in paragraphs (d) through (f) of this provision in order to comply with debt collection requirements of 31 U.S.C. 7701(c) and 3325 (d), reporting requirements of 26 USC 6041, 6041A, and 6050M and implementing regulations issued by the Internal Revenue Service (IRS). If the resulting contract is subject to the reporting requirements described in FAR 4.904, the failure or refusal by the offeror to furnish the information may result in a 31 percent reduction of payments
- (c) otherwise due under the contract.

☐ Corporate Entity (not tax exempt);

(d) The TIN may be used by the Government to collect and report on any delinquent amounts arising out of the offeror's relationship with the Government (3I USC 7701(c)(3)). If the resulting contract is subject to the payment reporting requirements described in FAR 4.904, the TIN provided hereunder may be matched with IRS records to verify the accuracy of the offeror's TIN.

(e) Taxpa	yer Identification Number (TIN).
TIN: _	
	TIN has been applied for.
	TIN is not required because:
	☐ Offeror is a nonresident alien, foreign corporation, or foreign partnership
	that does not have income effectively connected with the conduct of a trade or
	business in the U.S. and does not have an office or place of business or a fiscal
	paying agent in the U.S.;
	☐ Offeror is an agency or instrumentality of a foreign government;
	☐ Offeror is an agency or instrumentality of the Federal Government.
(e) Type o	of Organization.
	Sole Proprietorship;
	Partnershin:

	Ш	Corporate Entity (tax exempt);
		Government Entity (Federal, State or local);
		Foreign Government;
		International organization per 26 CFR 1.6049-4;
		Other
(f)	Comn	non Parent.
		Offeror is not owned or controlled by a common parent as defined in paragraph (a) of this clause.
		Name and TIN of common parent:
		Name
		TIN
		(End of provision)

L.2 52.204-8 ANNUAL REPRESENTATIONS AND CERTIFICATIONS. (JAN 2018)

- (a)(1) The North American Industry Classification System (NAICS) code for this acquisition is 236118, 236220, 237110, 237310, and 237990.
 - (2) The small business size standard is \$36.5M.
- (3) The small business size standard for a concern which submits an offer in its own name, other than on a construction or service contract, but which proposes to furnish a product which it did not itself manufacture, is 500 employees.
- (b)(1) If the provision at <u>52.204-7</u>, System for Award Management, is included in this solicitation, paragraph (d) of this provision applies.
- (2) If the provision at <u>52.204-7</u> is not included in this solicitation, and the offeror is currently registered in the System for Award Management (SAM), and has completed the Representations and Certifications section of SAM electronically, the offeror may choose to use paragraph (d) of this provision instead of completing the corresponding individual representations and certifications in the solicitation. The offeror shall indicate which option applies by checking one of the following boxes:
 - □ (i) Paragraph (d) applies.
- \Box (ii) Paragraph (d) does not apply and the offeror has completed the individual representations and certifications in the solicitation.
- (c)(1) The following representations or certifications in SAM are applicable to this solicitation as indicated:
- (i) <u>52.203-2</u>, Certificate of Independent Price Determination. This provision applies to solicitations when a firm-fixed-price contract or fixed-price contract with economic price adjustment is contemplated, unless—
- (A) The acquisition is to be made under the simplified acquisition procedures in Part
 13;
- (B) The solicitation is a request for technical proposals under two-step sealed bidding procedures; or
 - (C) The solicitation is for utility services for which rates are set by law or regulation.
- (ii) <u>52.203-11</u>, Certification and Disclosure Regarding Payments to Influence Certain Federal Transactions. This provision applies to solicitations expected to exceed \$250,000.

- (iii) <u>52.203-18</u>, Prohibition on Contracting with Entities that Require Certain Internal Confidentiality Agreements or Statements-Representation. This provision applies to all solicitations.
- (iv) <u>52.204-3</u>, Taxpayer Identification. This provision applies to solicitations that do not include the provision at <u>52.204-7</u>, System for Award Management.
- (v) <u>52.204-5</u>, Women-Owned Business (Other Than Small Business). This provision applies to solicitations that—
 - (A) Are not set aside for small business concerns;
 - (B) Exceed the simplified acquisition threshold; and
 - (C) Are for contracts that will be performed in the United States or its outlying areas.
- (vi) <u>52.209-2</u>, Prohibition on Contracting with Inverted Domestic Corporations—Representation.
- (vii) <u>52.209-5</u>, Certification Regarding Responsibility Matters. This provision applies to solicitations where the contract value is expected to exceed the simplified acquisition threshold.
- (viii) <u>52.209-11</u>, Representation by Corporations Regarding Delinquent Tax Liability or a Felony Conviction under any Federal Law. This provision applies to all solicitations.
- (ix) <u>52.214-14</u>, Place of Performance—Sealed Bidding. This provision applies to invitations for bids except those in which the place of performance is specified by the Government.
- (x) <u>52.215-6</u>, Place of Performance. This provision applies to solicitations unless the place of performance is specified by the Government.
- (xi) 52.219-1, Small Business Program Representations (Basic & Alternate I). This provision applies to solicitations when the contract will be performed in the United States or its outlying areas.
- (A) The basic provision applies when the solicitations are issued by other than DoD, NASA, and the Coast Guard.
- (B) The provision with its Alternate I applies to solicitations issued by DoD, NASA, or the Coast Guard.
- (xii) <u>52.219-2</u>, Equal Low Bids. This provision applies to solicitations when contracting by sealed bidding and the contract will be performed in the United States or its outlying areas.
- (xiii) <u>52.222-22</u>, Previous Contracts and Compliance Reports. This provision applies to solicitations that include the clause at <u>52.222-26</u>, Equal Opportunity.
- (xiv) $\underline{52.222-25}$, Affirmative Action Compliance. This provision applies to solicitations, other than those for construction, when the solicitation includes the clause at $\underline{52.222-26}$, Equal Opportunity.
- (xv) <u>52.222-38</u>, Compliance with Veterans' Employment Reporting Requirements. This provision applies to solicitations when it is anticipated the contract award will exceed the simplified acquisition threshold and the contract is not for acquisition of commercial items.
- (xvi) <u>52.223-1</u>, Biobased Product Certification. This provision applies to solicitations that require the delivery or specify the use of USDA—designated items; or include the clause at <u>52.223-2</u>, Affirmative Procurement of Biobased Products Under Service and Construction Contracts.

- (xvii) <u>52.223-4</u>, Recovered Material Certification. This provision applies to solicitations that are for, or specify the use of, EPA–designated items.
- (xviii) <u>52.223-22</u>, Public Disclosure of Greenhouse Gas Emissions and Reduction Goals–Representation. This provision applies to solicitation that include the clause at <u>52.204-7</u>.
- (xix) <u>52.225-2</u>, Buy American Certificate. This provision applies to solicitations containing the clause at <u>52.225-1</u>.
- (xx) <u>52.225-4</u>, Buy American—Free Trade Agreements—Israeli Trade Act Certificate. (Basic, Alternates I, II, and III.) This provision applies to solicitations containing the clause at <u>52.225-3</u>.
 - (A) If the acquisition value is less than \$25,000, the basic provision applies.
- (B) If the acquisition value is \$25,000 or more but is less than \$50,000, the provision with its Alternate I applies.
- (C) If the acquisition value is \$50,000 or more but is less than \$80,317, the provision with its Alternate II applies.
- (D) If the acquisition value is \$80,317 or more but is less than \$100,000, the provision with its Alternate III applies.
- (xxi) $\underline{52.225-6}$, Trade Agreements Certificate. This provision applies to solicitations containing the clause at $\underline{52.225-5}$.
- (xxii) <u>52.225-20</u>, Prohibition on Conducting Restricted Business Operations in Sudan—Certification. This provision applies to all solicitations.
- (xxiii) <u>52.225-25</u>, Prohibition on Contracting with Entities Engaging in Certain Activities or Transactions Relating to Iran-Representation and Certifications. This provision applies to all solicitations.
- (xxiv) <u>52.226-2</u>, Historically Black College or University and Minority Institution Representation. This provision applies to solicitations for research, studies, supplies, or services of the type normally acquired from higher educational institutions.
- (2) The following representations or certifications are applicable as indicated by the Contracting Officer:

Software.

(c) The offeror has completed the annual representations and certifications electronically via the SAM website accessed through https://www.acquisition.gov. After reviewing the SAM database information, the offeror verifies by submission of the offer that the representations and certifications currently posted electronically that apply to this solicitation as indicated in paragraph (c) of this provision have been entered or updated within the last 12 months, are current, accurate, complete, and applicable to this solicitation (including the business size standard applicable to the NAICS code referenced for this solicitation), as of the date of this offer and are incorporated in this offer by reference (see FAR 4.1201); except for the changes identified below [offeror to insert changes, identifying change by clause number, title, date]. These amended representation(s) and/or certification(s) are also incorporated in this offer and are current, accurate, and complete as of the date of this offer.

FAR CLAUSE # TITLE DATE CHANGE

Any changes provided by the offeror are applicable to this solicitation only, and do not result in an update to the representations and certifications posted on SAM.

(End of provision)

L.3. 52.225-18 PLACE OF MANUFACTURE (SEPT 2006)

- (a) Definitions. As used in this clause—
- "Manufactured end product" means any end product in Federal Supply Classes (FSC) 1000-9999, except—
 - (1) FSC 5510, Lumber and Related Basic Wood Materials;
 - (2) Federal Supply Group (FSG) 87, Agricultural Supplies;
 - (3) FSG 88, Live Animals;
 - (4) FSG 89, Food and Related Consumables;
 - (5) FSC 9410, Crude Grades of Plant Materials;
 - (6) FSC 9430, Miscellaneous Crude Animal Products, Inedible;
 - (7) FSC 9440, Miscellaneous Crude Agricultural and Forestry Products;
 - (8) FSC 9610, Ores;
 - (9) FSC 9620, Minerals, Natural and Synthetic; and
 - (10) FSC 9630, Additive Metal Materials.

"Place of manufacture" means the place where an end product is assembled out of components, or otherwise made or processed from raw materials into the finished product that is to be provided to the Government. If a product is disassembled and reassembled, the place of reassembly is not the place of manufacture.

(b) For statistical purposes only, the offeror shall indicate whether the place of manufacture of the end products it expects to provide in response to this solicitation is predominantly—

- (1) [] In the United States (Check this box if the total anticipated price of offered end products manufactured in the United States exceeds the total anticipated price of offered end products manufactured outside the United States); or
- (2) [] Outside the United States.

(End of provision)

L.4 AUTHORIZED CONTRACTOR ADMINISTRATOR

If the offeror does not fill-in the blanks below, the official who signed the offer will be deemed to be the offeror's representative for Contract Administration, which includes all matters pertaining to payments.

L.5 <u>52.225-20 PROHIBITION ON CONDUCTING RESTRICTED BUSINESS OPERATIONS IN SUDAN – CERTIFICATION (AUG 2009)</u>

(a) Definitions. As used in this provision—

"Business operations" means engaging in commerce in any form, including by acquiring, developing, maintaining, owning, selling, possessing, leasing, or operating equipment, facilities, personnel, products, services, personal property, real property, or any other apparatus of business or commerce.

"Marginalized populations of Sudan" means—

- (1) Adversely affected groups in regions authorized to receive assistance under section 8(c) of the Darfur Peace and Accountability Act (Pub. L. 109-344) (50 U.S.C. 1701 note); and
- (2) Marginalized areas in Northern Sudan described in section 4(9) of such Act. "Restricted business operations" means business operations in Sudan that include power production activities, mineral extraction activities, oil-related activities, or the production of military equipment, as those terms are defined in the Sudan Accountability and Divestment Act of 2007 (Pub. L. 110-174). Restricted business operations do not include business operations that the person conducting the business can demonstrate—
- (1) Are conducted under contract directly and exclusively with the regional government of southern Sudan;

- (2) Are conducted pursuant to specific authorization from the Office of Foreign Assets Control in the Department of the Treasury, or are expressly exempted under Federal law from the requirement to be conducted under such authorization;
 - (3) Consist of providing goods or services to marginalized populations of Sudan;
- (4) Consist of providing goods or services to an internationally recognized peacekeeping force or humanitarian organization;
- (5) Consist of providing goods or services that are used only to promote health or education; or
 - (6) Have been voluntarily suspended.
- (b) *Certification*. By submission of its offer, the offeror certifies that it does not conduct any restricted business operations in Sudan.

(End of provision)

- L.6. 52.209-2 PROHIBITION ON CONTRACTING WITH INVERTED DOMESTIC CORPORATIONS REPRESENTATION (Nov 2015)
- (a) Definitions. "Inverted domestic corporation" and "subsidiary" have the meaning given in the clause of this contract entitled Prohibition on Contracting with Inverted Domestic Corporations (52.209-10).
- (b) Government agencies are not permitted to use appropriated (or otherwise made available) funds for contracts with either an inverted domestic corporation, or a subsidiary of an inverted domestic corporation, unless the exception at <u>9.108-2</u>(b) applies or the requirement is waived in accordance with the procedures at <u>9.108-2</u>(b).
 - (c) Representation. The Offeror represents that.
 - (1) It □ is, □ is not an inverted domestic corporation; and
 - (2) It \Box is, \Box is not a subsidiary of an inverted domestic corporation.

(End of provision)



U.S. Department of State Facilities Maintenance Section

STATEMENT OF WORK FOR

Annex Chillers Replacement Rev 1

> U.S. Embassy Lima, Peru

August 07, 2018

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U.S. DEPARTMENT OF STATE

U.S. Embassy

Lima, Peru

1. INTRODUCTION

- 1.1. The United States Department of State (DOS) requires construction services to replace two (2) screw air cooled chillers at the Annex Building, inside the U.S Embassy Located in Lima, Peru. The two (2) existing chillers shall be replaced with equipment that has similar footprint dimensions. The new chillers have a slight increase over the existing capacity and shall be provided as specified and compatible with existing pump capabilities. The existing associated chilled water pumps are to remain. Existing equipment specifications and a new basis of design (BOD) selection has been provided with this Statement of Work (SOW). The replacement of the chillers shall be phased. One (1) chiller shall remain in service at all times. Temporary/short-term shut downs may be allowed if approved in advance by the Project Director / Contracting Officer's Representative (PD/COR) and Facility Manager (FM).
- 1.1. A pre-bid walk-thru will be will be coordinated with invited bidders by the PD/COR and Facility Manager (FM). The project schedule, along with other miscellaneous project specifics will be reviewed during the walk-thru.
- 1.3. Point of contact for matters related to this SOW is as follows:

Richard P. Marrs | Facility Manager
US Embassy | Lima | Peru
T (+ 511) 618 2637 | M (+ 511) 99900 7973
marrsrp@state.gov

2. GENERAL REQUIREMENTS

- 2.1. *Basic Work Summary*. The Contractor shall provide workers, equipment, and materials necessary to:
 - 2.1.1. Remove the existing two (2) ALS190C Mc Quay Package Air Cooled Rotary Screw Chillers and accessories to the Point of Connection.
 - 2.1.2. Furnish and install two (2) new package screw air cooled chillers and accessories.

- 2.1.3. Remove existing piping as noted on sketches included in Exhibit C and reconnect piping.
- 2.1.4. Make the necessary connections of new chiller to the existing BAS system and restore original sequence of operation.
 - In addition to the new equipment: rigging, piping, piping accessories, bracing, disconnect switches, electrical whip connectors, thermostats, valves, gauges, controllers, controls wiring and other peripheral accessories are also included. Mechanical, electrical, controls, and painting are involved. Test, Adjust, and Balance (TAB), Factory Start-up, pressure test, system flush and basic adjustments of the new equipment are part of the Work.
- 2.2. Schedule Expectations. The new equipment shall be procured after receiving approval on submittals, allowing for an expected lead time of twenty (20) weeks and shipment to Post. All new equipment shall be installed and fully commissioned within six (6) weeks of arrival at Post. The contractor shall provide an expected project schedule to the PD/COR. See Exhibit D (Div. 1 Specifications) for related scheduling requirements.
- 2.3. *Building Codes*. Work is governed by the latest version of the International Building Code (IBC) and the OBO Supplements, which includes the International Mechanical Code, International Plumbing Code, and National Electric Code. Work shall comply with OBO standards and local jurisdictional requirements. Work not in compliance with the IBC and NEC shall be deemed not in compliance with the Contract.
- 2.4. Warranty. Manufacturer shall warrant all equipment and material of its manufacture against defects in workmanship and material for a period of eighteen (18) months from date of shipment or twelve (12) months from date of start-up, whichever occurs first.
- 2.5. Additional Information. Included with this Statement of Work narrative are attached exhibits. The contractor shall comply with the requirements of the construction specifications (as applicable to this project and as modified by this Statement of Work documentation). Any conflicts between documentation should immediately be brought to the attention of the PD/COR.
 - 2.5.1. *Project Orientation Photos*. See Exhibit A for orientation photos of existing equipment/systems.
 - 2.5.2. *Engineering Data Existing Equipment*. See Exhibit B for original engineering data for the existing to be removed equipment.
 - 2.5.3. Engineering Data New Equipment Basis of Design. See Exhibit C for basis of design equipment selections. Sketches provided shall be understood as a diagrammatic tool to orient the contractor with the general requirements.

- 2.5.4. *Specifications*. Refer to Specifications (Exhibit D) for detailed requirements regarding project processes and construction security requirements.
- 2.6. *Location*. U.S. Embassy Lima, Peru. Avenida La Encalada Cdra 17- Monterrico, Lima, Peru
- 2.7. Seismic. Seismic restraints shall be applied to new chillers, ductwork and piping. Seismic restraints shall be designed to meet Zone 4 classification (S_S=1.50 and S₁=0.6) design to restrict horizontal seismic forces in two directions, transverse and longitudinal directions.
- 2.8. *Shipping*. The Contractor is responsible for shipping, delivery, and storage of all tools, materials, and equipment to the Work site. Chillers shall be stored at the Embassy Compound in a place designated by the FM. Once removed from Customs, it will be directly sent to the Embassy.
- 2.9. *Safety*. The Contractor is responsible for the safety of his/her employees, and for conduct of the work in a manner that prioritizes the safety of Post residents, employees, and visitors.
- 2.10. *Damage*. Protect exterior elements and interior finishes from damage. Damage caused by the Contractor to the site will be the returned to original condition at the expense and responsibility of the contractor.
- 2.11. *Interruptions of Service*. The Contractor shall maintain existing systems in service to the maximum extent possible and coordinate interruptions of any utility services in advance with the Facility Manager. These interruptions shall be notified with 4 days in advance.
- 2.12. *Refrigerant Handling*. Handling/charging/disposal of refrigerants for use in air conditioning systems shall comply with U.S. and Lima, Peru laws and regulations.
- 2.13. *Submittals*. The contractor shall provide submittals for all new equipment and materials. See included specifications exhibit for additional information.
- 2.14. *Training*. The contractor shall provide training for all new equipment to the facility management staff. Coordinate with PD/COR and FM.
- 2.15. *O&M Manuals*. The contractor shall provide one copy of O&M manual in 3-ring binder format and two (2) electronic PDF format copies on CD to the FM.
- 2.16. *Drawing/AutoCAD Files*. Available existing construction documentation shall be provided by the PD/COR if requested by the contractor. Availability and accuracy of existing files cannot be guaranteed.

3. SCOPE OF WORK

- 3.1. Provide workers, equipment, and materials necessary to:
 - 3.1.1. Replace Chillers. Replace two (2) existing ALS190C Mc Quay package air cooled rotary screw chillers with new. Remove the existing chillers (converted from R-22 and currently use R-134A). The chillers shall be removed in phases to maintain central plant operation at all times. In addition to chiller removal, piping and all peripheral devices between the chillers and POC as shown on sketches shall be removed and replaced with new. Install new isolation valves at POC locations. The contractor shall remove and dispose of all unused equipment/materials. The contractor shall install chillers and associated equipment/materials as required to deliver a complete functioning system.
 - a. The contractor shall replace one (1) chiller at a time. One chiller shall always remain in operation. The contractor shall provide all necessary materials to connect new chillers to existing piping. Contractor shall provide new piping and associated supports as required. New piping shall match existing piping in size and material unless otherwise noted and approved by the PD/COR.
 - b. Chilled water pumps will be the same. Post will be in charge to replace impellers on both pumps to satisfy the new chillers flow requirements. It will be done before the arrival of the new chillers to Post. Pumps curve can be found in Exhibit C.
 - c. The new chillers shall be the same approximate foot print as existing and shall be installed on the existing equipment pads without concrete modifications. If any is required it will be done by Post, before the chillers arrival. Dimension information can be found in Exhibit C.
 - d. Existing vibration isolators shall be replaced with new vibration isolators furnished and installed by Contractor that have been selected for new chillers.
 - e. New chillers shall be installed in the same orientation as the existing equipment. New chiller supply and return water inlet/outlets shall be on the same sides, elevations, and in the same general location of the existing chiller water inlets/outlets to limit piping modifications. Contractor shall match inlet/outlet pipe sizing with existing. The contactor shall field verify all existing measurements/conditions prior to new equipment procurement. If any steel structure will be necessary it shall be provided by the Contractor
 - f. Refrigerant shall be reclaimed in accordance with US and Lima, Peru laws and regulations. Post has a refrigerant recovery machine available for contractor use. Contractor shall verify suitability of this recovery machine during the pre-bid walk-through and if determined that its use is not viable, include contractor furnished equipment in proposal.

- g. Chillers will be installed at the Penthouse level of the Annex building, accessible through the roof of the building. Chillers shall be lifted and removed with a crane parked at the Interior Road (see Exhibit C for building section provided to calculate the required crane arm length for this work).
- h. It is anticipated that the Penthouse transverse aluminum beams and a couple steel beams over the area of the chillers, shall be removed to make room for the chillers drop and removal maneuvers. After the installation all aluminum and steel transverse beams shall be re installed to their original position. Due to internal traffic considerations, the use of a crane will only be available on Saturdays and Sundays.
- i. Factory test assembled water chillers before shipping, according to ARI 550/590. Testing protocol shall include, at a minimum, entering and leaving water temperatures, flow rate, power input, sound levels, vibration (25% above design operating speed) and three part load points. Demonstrate system protection and restart after the following conditions: Phase loss, Power failure, Flow loss, Over voltage, Under voltage, High head pressure cut-out.
- j. Provide test report indicating instrumentation, test conditions, acceptable limits for test results, and results.
- k. Engage a technician, factory-trained on equipment being installed, to inspect and verify field-assembled components have been re-instated to factory tested conditions. Technician shall also inspect equipment installation, including piping and electrical connections, and to perform start-up service after performing start-up checks according to manufacturer's written instructions and the following:
 - 1. Verify that refrigerant charge is sufficient and water chiller has been leak tested.
 - 2. Verify that pumps are installed and functional.
 - 3. Verify that thermometers and gages are installed.
 - 4. Operate water chiller for run-in period.
 - 5. Check bearing lubrication and oil levels.
 - 6. Verify proper motor rotation.
 - 7. Verify static deflection of vibration isolators, including deflection during water chiller startup and shutdown.
 - 8. Verify and record performance of chilled water flow and low-temperature interlocks.
 - 9. Verify and record performance of water chiller protection devices.
 - 10. Test and adjust controls and safeties. Replace damaged or malfunctioning controls and equipment.
 - 11. Prepare written start-up report that records results of tests and inspections.

- 1. New equipment shall meet the following criteria and basis of design. Additional basis of design information can be found in Exhibit C.
 - 1. Two (2) Trane (Brand Name or Equal) RTAC-140 package screw air cooled chillers, refrigerant R-134A UL Listed
 - 2. Each unit has to have two refrigerant circuits, with one rotary screw compressor per circuit
 - 3. Unit Energy Efficiency per ASHRAE Standard 90.1
 - 4. Complies with ASHRAE 15 for safety code for mechanical refrigeration.
 - 5. Complies with ASHRAE 147 for refrigerant leaks, recovery, and handling and storage requirements
 - 6. Capacity: 140.2 Ton, rated in accordance with AHRI Standard 550/590.
 - 7. Rated for 460V/60HZ/3Ph electrical service.
 - 8. Victaulic waterbox connections.
 - 9. Evaporator copper tubes with enhanced internal finish.
 - 10. Air cooled condenser with coastal/marine protection, proven to stand up to 6,000+ hour salt spray exposure test.
 - 11. Units shall be leak and pressure tested at 390 psig high side, 250 psig low side.
 - 12. Factory installed flow switch is installed on a pipe stub in the evaporator inlet.
 - 13. Provide power factor correction with chiller to meet or exceed a power factor of 0.95 unless contractor certifies that power factor correction shall be provided at the site level to ensure site power factor does not fall below 0.95.
 - 14. Factory-applied insulation over all cold surfaces of chiller capable of forming condensation. Minimum ³/₄ inch closed-cell, flexible elastomeric thermal insulation.
 - 15. Rated sound power level according to ARI 575.
 - 16. The system shall communicate with the existing Johnsons Controls Metassys BAS via hardwire connections and network integration as necessary to ensure that the replacement chillers have the same control, integration, and functionality as the existing chillers at a minimum.
 - 17. Capacity control: Compressors shall start at minimum load. Capacity control ranges from 100% to 15% of chiller full load.
 - 18. Chiller manufacturer must have technical support (maintenance and service providers) in this region and availability of replacement parts within 24 hours.
 - 19. Flow rate needed to achieve required cooling capacity shall be compatible with existing pumps. See Exhibit B for pump performance curves.
 - 20. Certified Capacity:
 - i. 140.2 tons of cooling capacity, with water as the fluid type
 - ii. NPLV 0.566 kW/ton

- iii. Evaporator water temperatures: 54 °F entering, 44 °F leaving
- iv. Condenser air temperatures: 86 °F
- v. Pressure drops shall not exceed 16 ft H2O on evaporator
- 3.2. *Electrical*. All existing disconnects to be replaced. The contractor is responsible for providing the new conduit/conductors/fittings as required to make new connections between the new disconnects to the new units. Contractor shall verify existing overcurrent protection and conductor size feeding chillers from main distribution panel are sized per NEC requirements to adequately support new chiller electrical loads. Where inadequately sized, contractor shall provide line item pricing for replacement. Existing conduits may be reused if they are buried in concrete.
- 3.3. *Painting/Marking*. The contractor shall paint all new and existing chilled water piping, in the chiller room. The contractor shall provide flow-arrow indications on supply and return piping. The Facility Manager will review and approve paint type and color. The contractor is responsible for submitting paint options for Facility Manager review/approval.
- 3.4. Additional Information. In addition to the providing the new mechanical/electrical equipment and tasks listed in section 3.1; all required piping, piping connections, insulation, valves, piping accessories, controls wiring, and other miscellaneous materials are part of the Work. Contractor shall furnish and install all valves, gauges, flow switches, sensors and other peripheral components between point of connection and new chillers to match the existing installation. Details in Exhibit B are provided for general configuration reference and location for point of connection. Main isolation valve replacement requires advanced notification, approval by FM and close coordination with Post for shut down and use of Post provided portable coolers. Use of portable coolers and downtime with isolation valve replacement shall be minimized. Any replaced components that were previously connected to the existing BAS shall be integrated with existing BAS.
- 3.5. *Disposal*. All used equipment, debris, trash and hazardous materials will be removed from the property and disposed of properly. The Contractor is responsible for ensuring that disposal of equipment, debris, and hazardous material complies with the laws and regulations of Lima, Peru.
- 3.6. Start-up and Commissioning. Contractor shall provide start-up and commissioning of the new system. The chillers shall be tested to verity that they communicate with the existing Johnsons Controls Metassys BAS via hardwire connections and network integration as necessary to ensure that the replacement chillers have the same control, integration, and functionality as the existing chillers at a minimum. Existing sequence of operation information is provided in Exhibit B and full controls asbuilt documents are available from Post upon request. Contractor shall verify normal operation with utility power and also back-up generator operation. The contractor

shall simulate failure/alarm conditions to ensure annunciation at the BAS. Contractor shall simulate refrigerant leak to ensure refrigerant monitoring system provides alarming capabilities required by ASHRAE 15. Start-up and commissioning shall be completed with the FM or designated technical staff in attendance. Coordinate with PD/COR and FM.

- 3.7. *Training*. The contractor shall provide training for all new equipment/systems to the facility maintenance staff. The contractor shall: Engage a technician, factory-trained on equipment being installed, to demonstrate and train Government's maintenance personnel to adjust, operate, and maintain water chillers. Coordinate with PD/COR and FM. Provide minimum of two 4-hour training sessions. *O&M Manuals*. The contractor shall provide one copy of O&M manual in 3-ring binder format and two (2) electronic PDF format copies on CD to the FM.
- 3.8. *O&M Manuals*. The contractor shall provide one copy of O&M manual in 3-ring binder format and two (2) electronic PDF format copies on CD to the FM. Include copies of warranties. Provide list of recommended spare parts and unit pricing. Provide list of recommended maintenance materials.

4. ATTACHMENTS

Exhibit A: Project Orientation Photos – Existing Equipment

Exhibit B: Engineering Data - Existing Equipment

Exhibit C: Engineering Data – New Equipment Basis of Design

Exhibit D: Specifications

EXHIBIT A

Project Orientation Photos – Existing Equipment









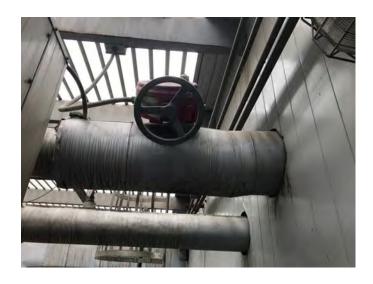




























EXHIBIT A: PROJECT ORIENTATION PHOTOS - EXISTING EQUIPMENT (Page 3 of 4)













EXHIBIT B

Engineering Data –

Existing Equipment

EXISTING CHILLERS SUBMITTAL

Submittal Explanation

Submittal # 135A NOB for USAID

Project No.: S-ARAMA-00-C0007 JA Jones / GyM Joint Venture

The following submittal has been deemed a Washington submittal. It will be reviewed in Washington and the response will come through OBO-Lima to the contractor. The original submittal 135 was rejected for item #1, approved as noted for item #2, rejected for item #3, approved for item #4, approved as noted for item #5 and rejected for item #6. This re-submittal will address items number 1, 2 and 3. Items 5 and 6 will be addressed in a future re-submittal. Please see the following clarifications/explanations.

Submittal Item #1:

Chiller #1

(McQuay item #1) Spec. 15692

This unit was previously rejected for various reasons. Please see the attached resubmitted data that will address all your concerns. The model umber has been switched to the ALS 190C to accommodate the changes.

OBO comment 1-A

We are re-submitting a new unit (model number ALS190C) that uses the required HFC refrigerant. Attached is the new data required for your review.

OBO comment 1-C

See the attached letter from the manufacturer dated August 17th.

OBO comment 1-D

New data clearly showing the vibration isolation for seismic zone 4 is attached.

Submittal Item #2: Air Handling Units

(McQuay item #2 through #5)

Spec. 15855

The AHU's (consisting of unit 6L1, 1L1 and 2L2) previously received an APN. The resubmittal information addresses OBO concerns and also addressed our concerns. We have also attached a letter from the manufacturer that will show compliance with all client comments regarding the filters. The result of this evaluation requires slight changes in the units as previously submitted. The original submittal did not include the static loss over the filters in determining the total static losses. We have also made different motor selections that have improved the efficiencies. Please review this information again.

Supporting Technical Data For Unit Tag Chiller # 1

Supportin	g rechnical	Data For
Item # 1 Unit Tag C	hiller # 1	Quantity 1
Description Packaged Air Cooled R	otary Screw Ch	iller
Model Number ALS190C		
Performance Data		
Unit Capacity Selected	Tons	129.8
Altitude	ft	0.0
Design Ambient Air Temperature	°F	86.0
Compressor(s) Only kW Input	kW ₁	107.68
EER at Selection Conditions		12.24
Electrical Data – Main Power		
Voltage / Hz / Phase		460/60/3
Main Chiller Power Supply		460
Number of Main Power Circuits	1	Circuit # 1
Minimum Circuit Ampacity (MCA)	Amps	376
Field wire quantity	Amps	3
Field Wire Gauge		500
Conduit Hub Quantity		1
Conduit Hub Nominal Size	ins	3.00
Maximum Fuse or HCAR Breaker size	Amps	500
Recommended Fuse Size	Amps	450
Rated Load Amps		
Compressor #1	Amps	139
Compressor #2	•	158
•	Amps	136
Compressor #3	Amps	-
Compressor #4	Amps	20 - 20 2 4476
Fan motors (14)	Amps	2.8 -39. 2 Arps.
60 Hz Main Power, Field Wiring Data		
Standard Power Block		
Number of Main Power Circuits	1	Circuit #1
Terminal Amps	Amps	840
Connector Copper Wire Size Range		(2) #2 to
		600 MCM
Unit Dimensions and Weights		
Cabinet Dimensions, L x W x H	ins	263.4 x 83.4 x 92.5
Operating Weight	lb	10620.0
Shipping Weight, Aluminum Fins	lb	10290.0
Additional Weight If Copper Fins	lb	1610.0
Evaporator Data		
Design Flow Rate	USgpm	310.66
Fluid Type	35	Water
Percent Glycol Volume Concentration		-
Entering Chilled Fluid Temperature	°F	56.3
Leaving Chilled Fluid Temperature	°F	46.3
•	•	
Design Flow Rate Pressure Drop Fouling Factor hr.*ft^2*F/Btu	ftHd	10.5 0.0001
		0.0001
Fluid (Water/Glycol) Volume	gal	40
Maximum Waterside Pressure	ftHd	351.1

Water Inlet / Outlet Connection Type		Victaulic Couplings	
Water Inlet / Outlet Connections Size	ins	8.0	

Drawings Required:

Drawing File	Page No. and Description
ALS141.PDF	ALS141C, 141C-218C Dimensions
ALSWIRE.PDF	ALSWIRE, 0141C-420C Wiring All Sizes

Supporting Technical Data For

Item# 1

Unit Tag Chiller #1

Quantity 1

Description Packaged Air Cooled Rotary Screw Chiller

Model Number ALS190C

Part Load Data - Certified Ratings in Accordance with ARI Standard 550/590-98

% Load on Chiller	Capacity Tons	Power Unit kW	EER	IPLV
100 %	117.71	130.81	10.80	14.47
75 %	88.26	83.82	12.64	
50 %	58.82	49.2	14.34	
25 %	29.44	21.34	16.55	

Sound Data, 60 Hz

	Sound Pressure Levels Data – See Note 1									
	Octave Band Center Frequency									
Hz	63	63 125 250 500 1000 2000 4000 8000								
dB	68	72	69	68	68	65	57	50	72	

Note 1 - Sound values are rated in accordance with ARI Standard 370. Sound Pressure ratings are values at 30.0 ft from sides of unit.

	Sound Power Levels Data									
	Octave Band Center Frequency									
Hz	63	125	250	500	1000	2000	4000	8000	dBA	
dB	95	99	96	95	95	92	84	77	99	

Per ARI Standard 370

LIMA USAID ANNEX CHILLERS (PACKAGED, HELICAL ROTARY SCREW, AIR COOLED, HERMETIC) UNITED STATES DEPARTMENT OF STATE SECTION 15692 OFFICE OF FOREIGN BUILDING OPERATIONS

3.2 ATTACHMENTS

- A. The following attachments are part of this Section:
 - 1. Equipment Data Sheet.
 - 2. Manufacturer's Data Sheet.
 - 3. AC Motor Data Sheet
 - 4. Submittal Data Sheet.

End of section

Project No.: XJ-3H-0002	LOCKWOOD GREENE	By: Alejandro Molinar
Owner: FBO		Date: 08/23/01
		Equipment No.: CH-01
	EQUIPMENT DATA SHEET	
Equipment No.:		CH-01
Capacity:		456,49 KW
Chilled Water:		19.60 Lit/sec
Entering Chilled Water Temper	ature:	13,5℃
Leaving Chilled Water Tempera	ature:	8°C
Entering Condenser Air Tempe	rature	30°C
Power Electrical Data:		460V/3PH/60Hz
Controls Electrical Data:		120 VAC
Maximum Electrical Power Cor	sumption (Entering Disconnect Switch):	

Manufacturer is:

McQuay International.

LG CHILLERS (PACKAGED, HELICAL ROTARY SCREW, AIR COOLED, HERMETIC) 03-Apr-01 15692.doc 15692 - 7

60% RE - SUBMITION PACKAGE # 5

Project No.: XJ-3H-0002	LOCKWOOD	GREENE		
Owner: FBO	_		Date: 08/23/20 Equipment No.:	
	MANUFAC	TURER'S	Equipment 140	CIT-01
	DATA SI	HEET		
GENERAL				
Model No.:	ALS190C	Capacity at Sp Conditions:	ecified	129.8
COMPRESSOR				
Control Range w/o Surge:	N/A			
ELECTRICAL MOTOR				
Manufacturer:	A.O. Smith Corp.	Model No.:		Hermetic OEM
Maximum Power Consumptio	n:		68 kW/Ton (100)	
			94 kW/Ton (95%	
			21 kW/Ton (90%	
			17 kW/Ton (85%	
			00 kW/Ton (75%	
			30 kW/Ton (70%	
Speed:	3600 rpm	Horsepower C	Output:	130 HP
EVAPORATOR				
Number of Passes:	N/A	Tube Water Ve	elocity:	N/A mps
Pressure Drop:	N/A mt. (WG)	Fouling Factor	:	N/A
Water Flow:	19.60 Lit/sec	Entering Wate	r Temperature:	13.5°C
Leaving Water Temp.:	8°C			
AUXILIARY AIR AND POW	ER REQUIREMENTS			
Oil Pump:	N/A KW	Purge Unit:		N/A kW
Oil Heater:	200 Watts	Others:		N/A kW
Compressed Air N/A psig:	N/A Scfm			
WEIGHTS				
Largest Rigging Weight:	10,290 lbs.	Operating We	ight:	10,620 lbs.

LG CHILLERS (PACKAGED, HELICAL ROTARY SCREW, AIR COOLED, HERMETIC)
15692.doc 15692 - 8
60% RE – SUBMITION PACKAGE # 5

Proje	ect No.: XJ-3H-0002	LO	CKWOOD G	BREENE	By: Alejandro Molinar	
Client: FBO					Date: 08/23/2001	
					Equipment No.: CH-01	l
			AC MOTOR DA	TA SHEET		
			Sheet 1 o	of 1		
1.	MOTOR NUMBER:	☑ Not Applie	able			
2.	MANUFACTURER:	A.O. Smith C	orp.			
3.	MOTOR RATINGS:	Horsepower:	1.5 Shaft Speed:	1140 RPM		
		Motor Speed:	1140 RPM Servi	ce Factor: 🛛 1.00		
			r Factor at Full Loa		Volts: <u>208-230/460</u>	Hertz: 60
		, i	ency at Full Load:		Phase: 3	
			rent: 2.8 Amps		ed Rotor Current: 10.5 An	nps
4.	TYPE:	Squirrel C			ynchronous	
		Single Spe			wo Speed Two Windings	
		☐ Single Win		Пν	ariable Torque	
5.	ENVIRONMENT:	☐ Constant		hemical Duty	Corrosive	
٥.	LIVINGI (IIILIVI)		Vet Outdoors			
		NFPA Classif	ication Area, Class	, Division _	, Group	
6.	ENCLOSURE:	☐ TEFC		ENV	Open Drip Proof	
		_	Explosion Proof			
		Chemical	Duty	□ w	/PI	
	ED 11 Œ		VPII	Material: 🛛 (Cast Iron Aluminum	
7. 8.	FRAME: INSULATION CLASS:	Size: N56Y	ПЕ		1	
9.	NEMA DESIGN:	□В		1		
10.	TEMPERATURE RATING		30°C R	tise: C at Se	rvice Factor	
11.	ALTITUDE ABOVE SEA		1000 meters or L			
12.	DUTY CYCLE:	Continuou		ntermittent -	Maximum Starts/Hour	
13.	ARRANGEMENT	Horizonta		✓ Vertical	☐ Flange	
14.	LUBRICATION	Grease		Oil	Sealed	
15.	TYPE DRIVE:	Direct		B	elt 🔲 [
16.	BEARINGS:	⊠ Ball		Roller		Sleeve
17.	EFFICIENCY:			☐ High	✓ Premium	
18.	CONDUIT BOX:	Standard S	Size: C	versize	Cast	☐ Sheet
		Metal			□ Water of	
	AD 1 AD 1 TO 1	With Grou	ınd Lug		Without C	round Lug
19.	SPACE HEATER:	None Watts ■		120 Volt	Luit Box: Yes No	
20.	WINDING TEMPERATUR			10 Ohm	100 Ohm	·
20.	DETECTORS:		rmostat 🗆 I			
21.	BEARING TEMPERATUR			☐ 10 Ohm	☐ 100 Ohm	
	DETECTORS:	_ =	rmostat 🔲 []		
22.	STARTING METHOD:		ge Auto-Tran	sformer	⊠ Y-D □ F	Resistance
		Variable F	requency Drive, _	RPM to	RPM	
		Constant		/ariable Torque		
23.	STARTER FURNISHED:		er or Separate Con	tractor	With Equipment	
24.	NOISE (Sound Power):	dBA a	1 Meter			
LG	CHILLERS (PAG	CKAGED, HELICA	AL ROTARY SCREW	V, AIR COOLED, HE	RMETIC) 03-A	pr-01
1569	92.doc		5692 - 9			
CO.0.	DE CUDICITION D	ACTA CT: #	•			

60% RE-SUBMITION PACKAGE # 5

Marketing News

Fo: McQuay Sales Representatives Regional Sales Managers McQuay Service

Staunton Marketing Team

From: Chiller Business Unit Date: October, 1998

Screw Chillers with R-134a ALS Screw Chillers

For ALS's derate the R-22 capacity and KW (tons x .68, KW x .615). The units will be furnished with POE oil, special evaporator head ring gaskets, and special control software.

Available only as a package unit

Please use the above information for quoting and selecting R134a applications
Contact the Screw Chiller Applications Group if further information is required



Performance Data

R-22, IP Units

Table 4, ALS 141C - ALS 218C

							AME	HENT AN	RTEMPE	RATURI	E					
ALS	LWT		75°F			85°F	95°F 105°F							115°F		
SIZE	(°F)	Cap.	PWR	EER	Cap.	PWR	EER	Cap.	PWR	EER	Сар.	PWR kWi	EER	Cap. Tons	PWR kWi	EER
		Tons	kWI		Tons	kWi		Tons	kWi		Tons		7.7	105.5	179.0	6.4
	40.0	128.3	112.4	12.0	123.0	126.2	10.3	117.7	140.0	9.1	112.2	158.5		105.5	180.0	6.6
	42.0	131.7	113.2	12.2	126.3	127.1	10.7	120.9	141.0	9.3	115.5	159.6	7.8		180.5	6.8
141C	44.0	135.0	113.7	12.6	129.7	# 28.1	10.8				119.1	160.8	8.0	111.6		
	46.0	138.4	114.6	12.8	133.2	128.9	11.1	128.0	143.2	9.7	122.4	162.2	8.2	114.7	181.8	7.0
	48.0	141.8	115.3	13.0	136.7	129.8	11.3	131.6	144.4	9.9	125.9	163.7	8.3	118.0 121.6	183.0 184.2	7.1
	√50.0	144.7	116.2	13.1	140.0	131.1	11.5	135.2	146.1	10.1	129.4	165.3	8.5		202.8	6.4
	40.0	143.9	127.4	12.0	137.9	142.9	10.4	132.1	158.5	9.1	126.0	179.6	7.7	118.4		6.6
1	42.0	147.7	128.2	12.2	141.8	143.9	10.7	135.7	159.7	9.3	129.5	180.8	7.8	121.6	203.8	
150C	44.0	151.5	128.9	12.6	145.5	145.0	10.9				133.7	182.1	8.0	125.3	204.5	6.8
	46.0	155.3	129.7	12.8	149.5	146.0	11.1	143.7	162.2	9.7	137.3	183.7	8.2	128.7	205.9	7.0
	48.0	159.1	130.6	13.1	153.3	147.1	11.3	147.5	163.6	9.9	141.3	185.4	8.3	132.4	207.2	7.1
	50.0	162.4	131.5	13.2	157.1	148.5	11.5	151.7	165.4	10.1	145.2	187.2	8.5	136.4	208.6	7.3
	40.0	160.6	139.9	12.1	154.0	157.0	10.4	147.3	174.1	9.2	140.6	197.2	7.8	132.1	222.7	6.5
	42.0	164.9	140.8	12.3	158.2	158.1	10.8	151.4	175.4	9.4	144.5	198.6	7.9	135.7	223.9	6.7
171C	44.0	169.0	141.5	12.7	162.4	159.3	11.0				149.2	200.1	8.1	139.8	224.6	6.9
	46.0	173.3	142.6	12.9	166.8	160.4	11.2	160.3	178.1	9.8	153.2	201.8	8.3	143.6	226.2	7.1
	48.0	177.5	143.5	13.2	171.1	161.6	11.4	164.7	179.7	10.0	157.7	203.6	8.4	147.8	227.6	7.2
	50.0	181.2	144.6	13.3	175.3	163.1	11.6	169.2	181.7	10.2	162.1	205.6	8.6	152.3	229.0	7.3
	40.0	175.2	155.8	12.0	168.0	174.8	10.3	160.7	193.8	9.1	153.3	219.6	7.7	144.1	248.0	6.4
	42.0	179.8	156.8	12.2	172.5	176.0	10.7	165.2	195.3	9.3	157.7	221.1	7.8	148.1	249.2	6.6
186C	44.0	184.4	157.6	12.6	177.2	177.4	10.8				162.7	222.8	8.0	152.5	250.0	6.8
1860				12.8	182.0	178.6	11.1	174.9	198.4	9.7	167.1	224.7	8.2	156.7	251.8	7.0
	46.0	189.0	158.8	13.0	186.7	179.9	11.3	179.6	200.0	9.9	171.9	226.8	8.3	161.2	253.4	7.1
	48.0 50.0	193.7	159.8	13.1	191.2	181.6	11.5	184.6	202.3	10.1	176.8	228.9	8.5	166.1	255.1	7.3
				12.4	170.9	169.5	10.7	163.6	188.0	9.4	156.1	212.9	8.0	146.6	240.5	6.6
	40.0	178.3	151.0 152.0	12.4	175.7	170.6	11.0	168.1	189.3	9.6	160.5	214.4	8.1	150.7	241.7	6.8
190C	42.0	183.0 187.6	152.8	13.0	180.3	170.0	11.2	100.1	100.5	0.0	165.6	216.0	8.3	155.2	242.5	7.0
190C	44.0			13.0	185.2	173.1	11.4	178.0	192.3	10.0	170.1	217.9	8.5	159.5	244.2	7.2
	46.0	192.5 197.1	153.9 154.9	13.4	190.1	174.4	11.6	182.9	193.9	10.2	175.1	219.8	8.5	164.0	245.7	7.3
	50.0	201.3	156.0	13.5	194.6	176.1	11.8	187.9	196.1	10.4	179.9	221.9	8.7	169.1	247.4	7.5
	40.0	189.9	183.8	12.3	182.0	183.8	10.6	174.2	203.8	9.3	166.2	230.8	7.9	156.1	260.7	6.6
	42.0	194.8	164.8	12.5	186.9	185.0	10.9	178.9	205.3	9.5	170.8	232.4	8.0	160.4	262.0	6.8
200C	_	199.8	165.7	12.8	191.9	186.5	11.1	170.0	200.0	4.0	176.3	234.2	8.2	165,3	262.9	6.9
200C	44.0		_	_	197.0	187.7	11.3	189.4	208.6	9.9	181.0	236.2	8.4	169.7	264.7	7.1
	46.0	204.8	166.9	13.0	202.2	189.1	11.5	194.6	210.2	10.1	186.3	238.3	8.5	174.6	266.4	7.2
	48.0 50.0	209.8	168.0	13.3	207.2	190.9	11.7	200.1	212.6	10.3	191.6	240.6	8.7	179.9	268.2	7.4
	40.0	214.2	169.2	12.3	187.9	190.9	10.6	179.9	211.2	9.3	171.6	239.3	7.9	161.2	270.1	6.6
	42.0	196.0 201.2	170.8	12.5	193.1	191.7	10.0	184.8	212.7	9.5	176.5	240.9	8.0	165.7	271.5	6.8
206C	44.0	206.3	171.6	12.8	198.3	193.2	11.1	10.00	212	10.00	182.1	242.7	8.2	170.6	272.4	6.9
200C	46.0	211.6	171.6	13.0	203.6	194.5	11.3	195.7	216.1	9.9	187.0	244.8	8.4	175.3	274.3	7.1
	48.0	211.6	174.1	13.3	203.6	196.0	11.5	201.1	217.9	10.1	192.5	247.0	8.5	180.3	276.1	7.2
	50.0	221.2	175.3	13.4	213.9	197.9	11.7	206.7	220.4	10.3	197.8	249.3	8.7	185.9	277.9	7.4
	40.0	210.7	176.0	12.4	202.0	197.5	10.7	193.3	219.1	9.4	184.4	248.2	8.0	173.3	280.2	6.6
	42.0	216.2	177.2	12.6	207.5	198.9	11.0	198.6	220.7	9.6	189.6	249.8	8.1	178.0	281.7	6.8
218C	44.0	221.7	178.1	13.0	213.0	200.4	11.2	204.4	222.6	9.8	195.6	251.7	8.3	183.4	282.6	7.0
1,00	46.0	227.3	179.4	13.2	218.7	201.8	11.4	210.3	224.2	10.0	201.0	253.9	8.5	188.3	284.6	7.2
	48.0	232.9	180.6	13.4	224.5	203.3	11.6	216.1	226.1	10.2	206.8	256.2	8.5	193.8	286.4	7.3
	50.0	237.7	181.9	13.5	229.8	205.3	11.8	222.0	228.6	10.4	212.6	258.6	8.7	199.8	288.3	7.5

- NOTES:

 Rated in accordance with ARI Standard 550/590. Shaded and bold ratings are certified in accordance with the ARI Water-Chilling Packages Using the Vapor Compression Cycle Certification Program, which is based on ARI Standard 550/590.

 Units with remote evaporators are not included in the ARI Certification Program.

 Ratings based on HCFC-22, evaporator fouling factor of 0.0001, 10 degree delta-T, evaporator flow of 2.4 gpm/ton and sea level attitude.

 For units with SpeedTrol option multiply capacity and EER by 0.99. For units operating at 208 volt, multiply capacity by 0.98.

 Interpolation is allowed, extrapolation is not permitted. Consult McQuay for performance outside the cataloged ratings.

 KW input is for compressors only. EER is for the entire unit, including compressors. Ian mobile and control power. Total power to the unit can be calculated by kW = tons x 12 / EER.

 Compressor loading and unloading is adaptively determined by system load, ambient air temperature, and other inputs to the MicroTech control algorithms.

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Table 10. ALS 141C - ALS 420C, R-22

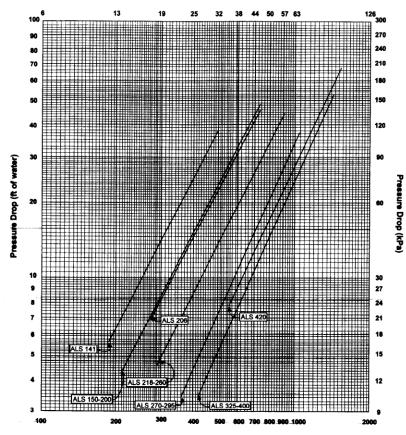
Table 10, ALS 141C - ALS 420C, R-22								
Unit Size	% Load	Capacity Tons	Power Unit kW	EER	IPLV			
	100.00	124.5	157.9	9.5				
141C	75.00	93.4	101.2	11.1	12.2			
1410	50.00	62.2	59.4	12.6	12.2			
	25.00	31.2	25.8	14.4				
	100.00	139.7	176.7	9.5				
150C	75.00	104.7	113.3	11.1	12.2			
1500	50.00	69.8	66.5	12.6	12.2			
	25.00	34.9	28.9	14.5				
	100.00	155.8	195.6	9.6				
	75.00	116.9	125.4	11.2	12.3			
171C	50.00	77.9	73.5	12.7	12.3			
	25.00	39.0	31.9	14.6				
	100.00	170.0	215.7	9.5				
	75.00	127.5	138.3	11.1	12.2			
186C	50.00	85.0	81.1	12.6	12.2			
	25.00	42.5	35.2	14.4				
	100.00	173.1	212.7	9.8				
190C	75.00	129.8	136.3	11.4	12.5			
1900	50.00	86.5	80.0	13.0	12.5			
	25.00	43.3	34.7	14.9				
	100.00	184.2	228.8	9.7				
	75.00	138.1	146.7	11.3	12.4			
200C	50.00	92.1	86.0	12.8	12.4			
	25.00	46.0	37.4	14.7				
	100.00	190.3	236.3	9.7				
206C	75.00	142.7	151.4	11.3	12.4			
206C	50.00	95.1	88.9	12.8	12.4			
	25.00	47.6	38.6	14.7				
Ī	100.00	204.4	251.2	9.8				
218C	75.00	153.3	161.1	11.4	12.5			
2180	50.00	102.2	94.4	13.0	12.5			
	25.00	51.1	41.1	14.9				
	100.00	225.7	263.7	10.3				
245C	75.00	169.3	170.4	11.9	13.0			
245C	50.00	112.8	112.8 99.9 13.5		13.0			
	25.00	56.5	44.3	15.3				
	100.00	239.8	285.9	10.1				
260C	75.00	179.9	184.8	11.7	12.8			
2600	50.00	119.9	108.3	13.3] 12.8			
	25.00	60.0	48.0	15.1				

Unit		Capacity	Power		
Size	% Load	Tons	Unit kW	EER	IPLV
	100.00	253.0	304.6	10.0	
270C	75.00	189.8	196.9	11.6	12.7
2700	50.00	126.5	115.4	13.1	
	25.00	63.3	51.1	14.8	
	100.00	263.1	326.8	9.7	
275C	75.00	197.3	211.2	11.2	12.2
2/50	50.00	131.6	123.8	12.7	12.2
	25.00	65.8	54.8	14.4	
	100.00	275.3	349.2	9.5	
	75.00	206.4	225.8	11.0	12.0
295C	50.00	137.6	132.2	12.5	12.0
	25.00	68.8	58.6	14.1	
	100.00	296.5	353.4	10.1	
325C	75.00	222.4	228.5	11.7	13.1
325C	50.00	148.3	129.9	13.7	13.1
	25.00	74.2	56.3	15.8	
	100.00	308.7	364.2	10.2	
335C	75.00	231.5	235.4	11.8	13.2
3350	50.00	154.3	133.9	13.8	13.2
	25.00	77.2	58.0	16.0	
	100.00	322.8	384.8	10.1	
350C	75.00	242.2	248.8	11.7	13.1
3500	50.00	161.4	141.5	13.7	13.1
	25.00	80.8	61.3	15.8	
	100.00	331.9	403.8	9.9	
365C	75.00	249.0	261.1	11.5	12.8
3650	50.00	166.0	148.5	13.4	12.0
	25.00	83.0	64.3	15.5	
	100.00	354.2	409.7	10.4	
375C	75.00	265.7	264.9	12.0	13.5
3/30	50.00	177.1	150.6	14.1	15.5
	25.00	88.6	65.3	16.3	
	100.00	364.3	429.8	10.2	
385C	75.00	273.2	277.9	11.8	13.2
3850	50.00	182.2	158.0	13.8	13.2
	25.00	91.1	68.5	16.0	
	100.00	376.5	448.6	10.1	
400C	75.00	282.3	290.0	11.7	13.1
+000	50.00	188.2	165.0	13.7	1 '3.'
	25.00	94.1	71.4	15.8	
	100.00	405.8	469.4	10.4	
420C	75.00	304.4	303.5	12.0	13.5
+200	50.00	202.9	172.5	14.1	13.3
	25.00	101.5	74.7	16.3	

- NOTES: 1. Cer Certified in accordance with the ARI Water-Chilling Packages Using the Vapor Compression Cycle Certification Program, which is based on ARI Standard 550/590.
 Units with remote evaporators are not included in the ARI Certification Program.
 Compressor unloading is adaptively determined by system load, ambient air temperature, and other inputs to the MicroTech control algorithms.

Pressure Drop

Figure 3, Evaporator Pressure Drop, ALS 141C - ALS 420C



Flow Rate (GPM)

Minimum/Maximum Flow Rates

ALS Unit Size	Minimum Flow gpm	Pressure Drop ft.	Maximum Flow gpm	Pressure Drop ft.	ALS Unit Size	Minimum Flow gpm	Pressure Drop ft.	Maximum Flow gpm	Pressure Drop ft.
141	187	5.8	500	38.0	275	374	3.7	998	33.6
150	199	3.9	530	25.6	295	392	4.1	1044	37.2
171	222	4.7	591	33.0	325	422	3.4	1125	31.0
186	242	6.3	645	38.0	335	439	3.8	1171	33.9
190	246	5.8	657	38.8	350	459	4.2	1225	37.4
200	262	6.3	699	44.0	365	472	4.4	1260	39.8
206	271	6.8	722	45.5	375	504	5.1	1344	46.1
218	291	4.5	776	33.1	385	518	5.5	1382	49.1
245	321	5.3	856	39.2	400	536	5.9	1428	52.8
260	341	6.0	910	44.4	420	577	7.8	1540	67.8
270	360	3.4	960	30.8					

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Product Manual ALS-3

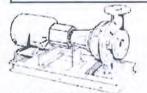
EXISTING CHILLED WATER PUMPS



SUBMITTAL

B-226.1F

JOB:	REPRESENTATIVE:	
UNIT TAG:	ORDER NO.	DATE: 11/16/2011
ENGINEER:	SUBMITTED BY:	DATE:
CONTRACTOR:	APPROVED BY:	DATE:



3E Series 1510

Centrifugal Pumps - Base Mounted

SPECIFICATIONS

Special Coupling(Rexnord Omega),
SPECIALS Bronze Wear Ring

Note: Equipped with EPDM coupling

MATERIALS OF CONSTRUCTION

■ BRONZE FITTED ■ ALL IRON

FEATURES

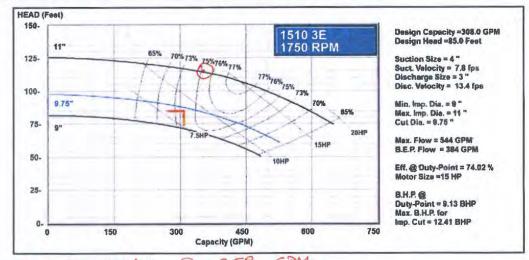
- ANSI/OSHA Coupling Guard
- Center Drop Out Spacer Coupling
- ☐ Fabricated Heavy Duty Baseplate

MAXIMUM WORKING PRESSURE

- 175 psi (12 bar) W.P. w/ 125# ANSI flange drilling
- 250 psi (17 bar) W.P. w/ 250# ANSI flange drilling (requires 1510-S)

TYPE OF SEAL

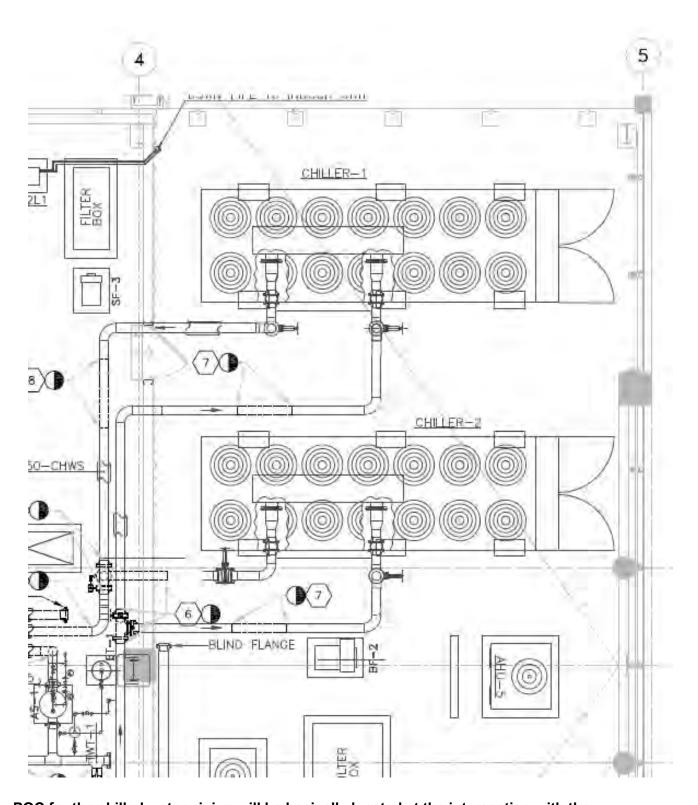
- 1510 Standard Seal (Buna-Carbon/Ceramic)
- 1510 -F Standard Seal w/ Flush Line (Buna-Carbon/Ceramic)
- 1510 S Stuffing Box construction w/ Flushed Mechanical Single Seal (EPR-Tungsten Carbide/Carbon)
- 1510 D Stuffing Box construction w/ Flushed Double Mechanical Seal (EPR-Carbon/Ceramic)
- Requires external water source
- 1510 -PF Stuffing Box Construction w/ Packing (Graphite Impregnated Tefion)



New GUDITIONS: Q = 3586 GPM $H_2 = 85 \times (358)^2 = 115$ FT ESP-REP v2011 04 © COPYRIGHT 2006 ITT, Corporation

Bell & Gossett

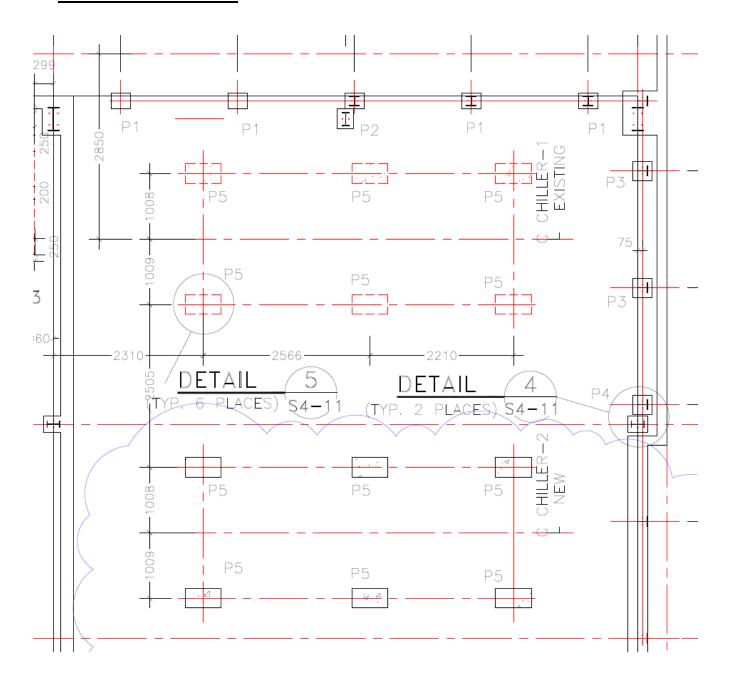
EXISTING CHILLERS AND PIPING



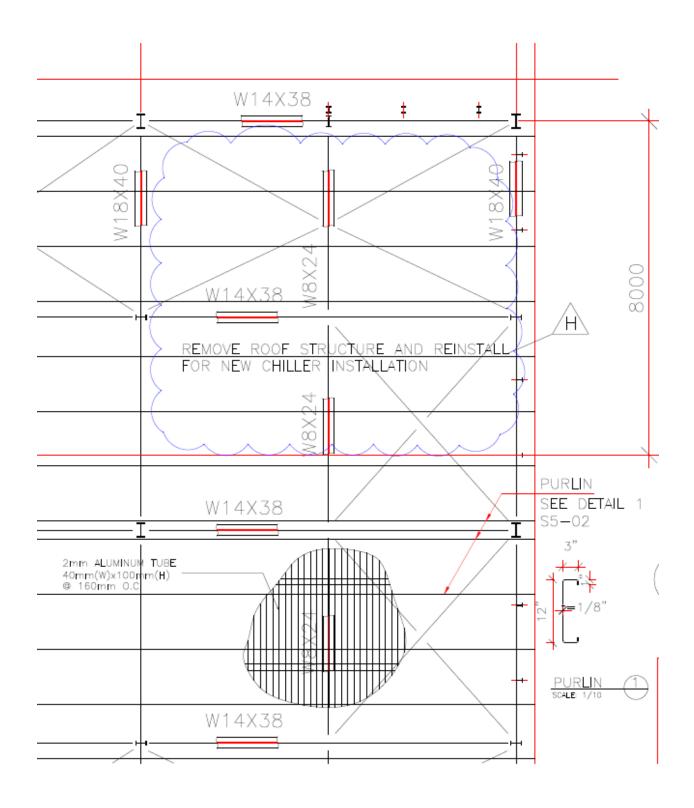
POC for the chilled water piping will be basically located at the intersection with the

gridline 4.

EXISTING CHILLER PADS



PENTHOUSE ROOF FRAMING



AHUS AND CHILERS SCHEDULE

	1	and for	10	7	5	CHE	Link			· V	V	DIZESTRE				URN	AF III	SMER									CHILL	E0. WA	TER O	SHL						1.0	
gark-	SERVICE.	T	EL	GH, T	TAL	EXT SP kPa	LOAD;	WOTON	ELEC CHAR	THE	WHEEL	L/S MAX/MIN	LE	TOTAL	SP kPa	beg	MOTES W	ELECT OHER SOHz	T/FE	HED.	EDL L/S	TOTAL Jew	BENS	ROWS	en en	WAX VEL m/s	EAT	,C	LAT	192	EWT	LWT	L/s	VALVE	AIR	WITH	REVARK
HOCATION!			10		iPa-	F_D ct	RW.	kw.	80 H	WHEEL	(mm)	MAX/MI	EAL II	Ma.	k₽q	bal	-60	80Hz	WHEEL	(mm)	100	Jan.	-60	~	200	.m/s	PB.	-WE-	Š	450	7	j.E.	~	~~	ker.	Ka-	-
4H= € 2L2	and FLO	ar A	Hu n	283	1.8	1.2	16:62	18,65	4807	Æ	548	930	6283	0,22	0.19	3.4	3.7	486V	FC	(122	6285	155,1	2745	5	11	27	281	19.6	137	128	8	1.07	82	-	0.27	28.95	CAHOZOFO
an Fill	15T FLO	H. 4	H0. 5	67.5	1.6.	1,2	13.46	14,92	4807	4F	548	925	5473	0.22	0.19	2.5	3.7	ABDV-	FC.	622	5473	127.5	96.82	4/	12	2.4	27.6	16.1	13.1	(2.8	8	13.8	5.7	-	U.tB	59.7	CAHO25FIL
He # 160	LOWER LE	/EL 4	H I 3	180 3	1.02	1.2	19.7	22.4	KHEW	AF	750	1416	3664	0:39	11.201	4.53	55	#BDV	FC	750	7090	135.4	10121	6	9	25	25	16.3	12.9	112	E	135	5.8	-	20.00	3.5	CAH026FD
AHO + SEI	F03M-178	/138 4	HU 1	31 1	38	1.873	1,84	9.03	zyy_V	FC	241	578	731	0.27	213	17.45.6	0.75	1.600	F	341	000	1916	13.20	3	10	2.09	29.5	23.3	Lt	14.3	9.2	13.0	1.17	-	20.11	12.12	CAHOOF
and é a	FK00W 1	24 P	OF 8	20		13.13		0.18	430V			_		-	_	-			_		626	10 67	1234	-	_		27.2	2) 2	19.9	155				-		-	CARRIER
AHRED.	RODE -004	7015 X	DF 6	26.		15.12		57.0	4507			_		_	\leftarrow	-			-		67E	(1.67	12:34	_	-		27.2	21.7	15.0	154				-		-	CARRIER SOLUSI MEGLIAN
HIJ & ZLI	FIDOR -	32 - 9	14	4	-	2	æ-5	-	1530	-	1	\leq		~	~	~	10	-	-	-	-	054	رينس	_	_		-	-	~	-	4			-	-	-	WELLIAY

		ROTARY AIR COOLED CHILLER SCHEDULE														
					СН	LLER			COMPRI	SSOR S	SECTION	<	CC	NDENS	E R	
_	MARK	SERVICE	CARACITY TONS	LPS	ENT WTR 'C	LVG WTR C	△P KPa	NO.	STERS CONTROL	ELEC CHAR 60 Hz	FLA EACH	LRA EACH	AMB AIR	NO. FANS	FLA EACH	REMARKS
	CHILLER # 1	AHU#2L2,1L1,4L0,6L1	130	19.4	13.5	8	66	2		480V			30	10	2.5	MCQUAY ALS190C
	CHILLER # 2	AHU#2L2,1L1,4L0,6L1	130	19.4	13.5	8	66	2		480V			30	10	2.5	MCQUAY ALS190C

EXHIBIT C

New Equipment Basis of Design

BASIS OF DESIGN

Air-Cooled Series R(TM)

Job Information

TRANE		Job01 TIG	
Tag	RTAC-140	Unit nominal tonnage	140
Model Number	RTAC1404	Unit type	Standard efficiency
Quantity	1	Refrigeration capacity	149.8 tons
TOPSS version number	210		

Unit Information

Cooling efficiency	11.20 EER (Btu/W-h)	Shipping weight	10832.0 lb
COP	3.285 COP (kW/kW)	Operating weight	11146.0 lb
Refrig (HFC-134a) - ckt 1	165.0 lb	Length	196.000 in
Refrig (HFC-134a) - ckt 2	165.0 lb	Width	89.000 in
Oil charge - ckt 1	1.30 gal	Height	93.000 in
Oil charge - ckt 2	1.30 gal	A-weighted sound pressure	72 dBA
Compressor sound package	No attenuator	A-weighted sound power	100 dBA
Agency listing	C/UL listing		

Evaporator Information

Evap application	Std temp	Evap fluid type	Water
Leaving fluid evap	44.00 F	Evap fluid concentration	0.00 %
Entering fluid evap	54.00 F	Evap fluid freeze point	32.00 F
Flow evap	358.0 gpm	Min flow evap	193.0 gpm
Fluid pressure drop evap	12.7 ft H2O	Fluid pressure drop min flow	3.91 ft H2O
		evap	
Evap fouling factor	0.000100 hr-sq ft-deg F/	Max flow evap	709.0 gpm
	Btu		
		Fluid pressure drop max	45.0 ft H2O
		flow evap	
Evap configuration	2pass 0.75	Saturated evap temp - ckt 1	40.6 F
	insulation		
		Saturated evap temp - ckt 2	41.4 F

Condenser Information

Ambient air temp	86.0 F	Cond ambient range	Standard ambient
Elevation	0.000 ft	Saturated cond temp - ckt 1	126.4 F
Cond fin material	CompleteCoat aluminum fins	Saturated cond temp - ckt 2	126.9 F
		Cond fan/motor config	Fans w/ TEAO motors

Electrical Information

Unit voltage	460.v/60.hz/3ph	LRA - compressor A	252.00 A
Total power	160.5 kW	LRA - compressor B	252.00 A
Compressor power	148.1 kW	LRA - compressor C	
Fan power	11.62 kW	LRA - compressor D	
Number of condenser fans	8.00 Each	Incoming power line connection	Single point
Compressor starter type	Wye-delta	Single point power MCA	293.00 A
RLA - condenser fan (each)	2.70 A	Single point power MOP	400.00 A

7/9/2018 TOPSS version numt: 210

Data generation date 4/8/2018

Air-Cooled Series R(TM)

Job Information

TRANE		Job01 TIG	
Tag	RTAC-140	Unit nominal tonnage	140
Model Number	RTAC1404	Unit type	Standard efficiency
Quantity	1	Refrigeration capacity	149.8 tons
TOPSS version number	210	7279670	TOTAL
RLA - compressor A	118.00 A	Dual point power MCA - ckt 1	
RLA - compressor B	118.00 A	Dual point power MCA - ckt 2	
RLA - compressor C		Dual point power MOP - ckt 1	
RLA - compressor D		Dual point power MOP - ckt 2	
Short circuit	Default	Short circuit current rating	10000.00 A

This unit complies with the efficiency requirements of ASHRAE Standard 90.1 2010 and CANS/CSA C743-09.

Certified in accordance with the AHRI Air-Cooled Water-Chilling Packages Certification Program, which is based on AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI). Certified units may be found in the AHRI Directory at www.ahridirectory.org.



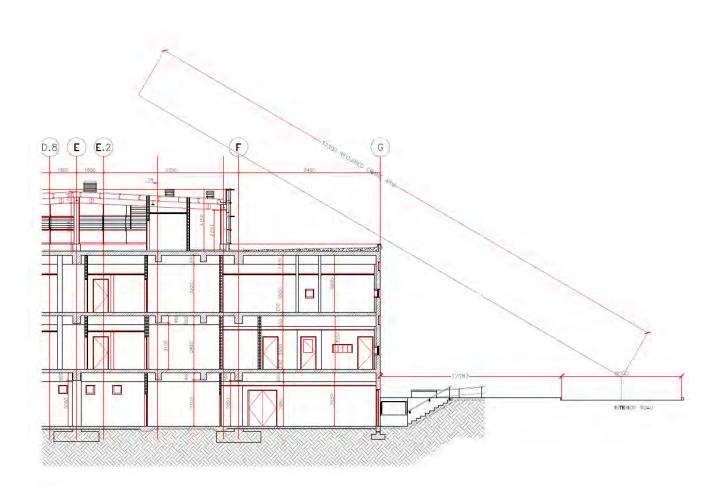
Information for LEED Projects

ASHRAE 90.1/CSA compliance	ASHRAE 2010	IPLV.IP	13.69 EER (Btu/W-h)	
Refrig (HFC-134a) - ckt 1	165.0 lb	Rated refrigeration capacity (AHRI)	140.2 tons	
Refrig (HFC-134a) - ckt 2	165.0 lb	Rated cooling efficiency	9.804 EER	
		(AHRI)	(Btu/W-h)	

This product meets the minimum efficiency requirements of ASHRAE Standard 90.1 and CANS/CSA C743 version 2010 (which are based on AHRI standard rating conditions) and, therefore, also meets the LEED "Minimum Energy Performance" prerequisite in the Energy and Atmosphere section.

The LEED Green Building Rating System™, developed by the U.S. Green Building Council, provides independent, third-party verification that a building project meets green building and performance measures.

REQUIRED CRANE ARM LENGHT



SUMMARY ANNEX COOLING LOADS

Unit	Kw	BTU/hr	New Load	Tons	
AHU # 4LO	159.4	543895		45.3	
AHU # 1L1	133.2	454497		37.9	
AHU # 6L1	25.16	85849	155611	13.0	
AHU # 2L2	155.1	529223		44.1	

Total 140.3 Tons

EXHIBIT D

Specifications

DIVISION 1 – GENERAL REQUIREMENTS

TABLE OF CONTENTS

011005	CONSTRUCTION EXECUTION AND COORDINATION
013205	PROJECT SCHEDULING
013305	CONSTRUCTION SUBMITTALS
013525	CONSTRUCTION SAFETY AND OCCUPATIONAL HEALTH
013550	CONSTRUCTION SECURITY
014010	CONTRACTOR'S QUALITY CONTROL
015005	TEMPORARY FACILITIES AND CONTROLS
017705	CLOSEOUT PROCEDURES
017825	OPERATION AND MAINTENANCE DATA

RELATED DOCUMENTS: This specification in turn applies to the Contract Drawings and Technical Specifications.

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: **10 days after award**, submit Project organization charts to the Project Director/COR.
 - 2. Project Execution Schedule See Section 013205 Project Scheduling

1.2 ON-SITE STAFF REQUIREMENTS

- A. The Contractor shall assign an English speaking Project Manager to be onsite full time.
- B. The Contractor shall provide an adequate professional administrative and supervisory staff on-site for all aspects of the work. This key staff shall be fully coordinated and provide a professional level of Project execution management
- C. From the issuance of the Notice to Proceed for Construction through Substantial Completion, the Contractor shall always have the following personnel at the Site: the Project Manager, the Superintendent, the QC Manager and the Safety Manager. Subject to satisfactory performance, some of these functions may be combined and performed by a single individual.
- D. Project Organization Chart: The Contractor shall depict principal staff assignments and contact information on a Project Organization Chart. This chart shall include key administrative and supervisory staff and, as applicable; indicate where multiple functions shall be performed by the same individual. The Contractor shall depict how management, supervisory, and administrative functions shall be performed, to include lines of communication and supervisory responsibility for sub-contractors.
- E. Each trades-person shall be skilled, experienced, and properly equipped to produce the required quality of work.

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, prior to the submittal of Bid/Proposal. Minutes of these discussions will become part of the contract.
- B. The Contractor shall perform work in accordance with applicable security requirements specified by the Project Director/COR.

- 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 and American holidays. Work hours shall be 7:00 AM to 6:00 PM.
 - a. Working hours shall be a maximum of 08 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.
 - b. The building is occupied by other tenants. 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 6:00 PM to 5:00 AM.
 - c. Unless otherwise modified in writing by local permit, the working hours for this Project are as specified above.
 - 2. Deliveries Deliveries of materials to the project are restricted. The Contractor shall refer and abide by local regulations for delivery restrictions.
 - 3. Local Holidays The Contractor shall observe, independently 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. These days are listed on the RQQ.
 - 4. U.S. Holidays Refer to list described on the RFQ.
 - 5. In accordance with Paragraph 1.4 B.1 below, working on a U.S Holiday or a Local Holiday is considered Excepted Operations. As such, the Government's approval of the contractors request to work on Local or US Holidays will be dependent upon the Contractor's written agreement to compensate the government for all of its additional costs.

B. 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 Project Director/COR at least one business day in advance of such operations and obtain the written acceptance of the Project Director/COR prior to scheduling any such work.

1.5 GENERAL

- A. The Contractor shall remove and replace workmanship that is found non-compliant 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 Project Director/COR will conduct a preconstruction conference on or near the date of NTP Construction 10 days after award. 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. Construction Coordination Meetings: The Contractor and Project Director/COR will hold frequent construction coordination meetings to discuss schedule and status of outstanding issues.
 - 1. The weekly construction coordination meeting shall have an agenda as follows:
 - a) Security
 - b) Safety
 - c) Quality Control
 - d) Project Execution Schedule
 - e) Submittal Register
 - f) Requests For Information (RFI)
 - g) Change Orders
 - h) Correspondence
 - i) Material Tracking Schedule and Procurement Log

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. For example, prior to substantial completion, the Government will provide and install TSS and telecom systems. The Contractor shall provide and install conduits, raceways, cables, terminal boxes, and source power per the contract documents.
- C. Additionally, the Contractor shall coordinate and integrate with the Government for the effective installation, termination, overall testing, modification and adjustment to the telecom and TSS systems.
- D. The Contractor shall advice 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)
 - a. To PD/COR 10 days after contract award.
 - b. Acceptance of the BPES is a prerequisite to the CO issuing the NTP for construction.
 - 2. Project Execution Schedule (PES) Updates
 - a. Submit to the PD/COR monthly--with the Payment Request.
 - b. Weekly 14 day look ahead plan
- B. If the Contractor does not submit acceptable schedules within the times prescribed above, the CO may withhold funds from progress payments in accordance with FAR Section 52.232.

1.3 GOVERNMENT REVIEW PROCESS

- A. For all submittals identified in this section, the USG shall review the schedule and supporting documentation for contract compliance. Formal submittal disposition will be issued within 15 calendar days after receipt of all required information.
- B. The PD/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, Primavera P3 or P6, or equivalent approved in advance by PD/COR.

1.5 SCHEDULE DEVELOPMENT

- A. The detailed Project Execution Schedule (PES) will include tasks and milestones representing the entire Scope of Work.
- B. Required Milestones those below must appear; additional milestones by Contractor or PD/COR may be added
 - 1. Contract Award
 - 2. NTP-Construction
 - 3. Required Dates for delivery of USG furnished items (GFCI).
 - 4. Project Substantial Completion
 - 5. 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.

SECTION 013305 CONSTRUCTION SUBMITTALS

1.1 GENERAL

- A. The Contractor shall transmit in English all construction submittals to the Project Director/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 Technical Specifications and submit it within **21 days after the NTP**. Submittals to include:
 - 1. Construction Submittals:
 - a. Product Data:
 - b. Shop Drawings:
 - c. Field Samples:
 - d. Administrative Submittals
 - e. Closeout Submittals
- D. Sample Transmittal Form. A sample Transmittal Form is provided as an attachment to this Section.
- E. Substitutions for Materials or Products:
 - 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. General:

- 1. The Government's review period for submittals is **15 calendar** days following the Government's receipt of a submittal.
- 2. Submittals will be reviewed only for general compliance with intent of Contract Documents and with information given therein. Government acceptance will not:
 - a. Relieve the Contractor of the responsibility for patent or latent errors and omissions, including details, dimensions, material, etc.
 - b. Authorize a departure from the details appearing on accepted construction specifications and drawings.

- The Government will have unlimited rights to all drawings, specifications, notes and other work developed in the execution of the works, upon acceptance of each submittal, and upon receipt of "For Information Only" submittals.
- B. Submittal Disposition: Pursuant to the submittal review, Project Director/COR will mark submittals as follows:
 - 7. ACCEPTED AS SUBMITTED (AS): Authorizes the contractor to proceed with the work covered.
 - 8. ACCEPTED AS NOTED (AN): Authorizes the contractor to proceed with the work covered provided he takes no exception to the corrections noted.
 - 9. FOR INFORMATION ONLY (IO): Indicates the submittal is for information only.
 - 10. 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.
 - b. The Contractor shall not proceed with the purchase, fabrication, delivery, or other related execution of the work until acceptance is granted.
 - c. The Contractor shall not allow the use of rejected submittals and materials.
 - d. Correction of noted defects or deficiencies shall be resubmitted for the Government's acceptance.
 - e. The Contractor shall bear all risk in the submittal-rejection-resubmittal cycle. Submittal rejection will not justify extension of Contract duration.
- C. 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 ofyears, 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

This completed form is to be sent to Project Director/COR with the required submittal.

CIII		CT A I			PROJECT, LOCATI					CONTRA						
501	RIVIII	ΓTAL			New Office Build	ing C	ompou	nd					345 Mo	ds 001 - 0	10	
RE	GIST	ER/LC	G/S	CHEDULE	Capital Big City, XJ-AA1234	ABC	_and			REPORT 01 Janu			Pa	age 1 of 1		
	SPECIF	ICATION		SUBMITTA	L	CO	NTRAC	TOR D	ATES		G	OVERNM	ENT DAT	ES, ACTIONS		
TAL	ON ER	PARAGRAPH NUMBER	TYPE	DESCRII	PTION	SCHEDULED SUBMISSION	ACTUAL SUBMISSION	ACCEPTANCE NEEDED BY:	MFGR WARRNTY EXPIRATION	CONTRACTOR. WARRANTY EXPIRATION	RE	MITTAL VIEW SENT	RECEIVED BY REVIEW AGENT	RETURNED TO PROJECT DIRECTOR/ COR	RETURNED TO CONTRACTOR	ıs
SUBMITTAL NUMBER	SECTION NUMBER	PARA	F		SCHEI SUBMI ACT SUBMI ACT SUBMI NEEDE		ME WAR EXPIF	CONTR WARI EXPIR	ON SITE	OTHER	RECEI REVIEW	RETUR PRO DIRE	RETUR	STATUS CODE		
			DPS	Detailed Project Schedu	lo.											
			SD4	Trenching, Backfilling an												+
				Utilities												
			AD1	Hot-Mixed Asphalt Pavir	ıg											
			AD3	Aggregate gradations												
			AD3	Asphalt cement												
			SA3	Exposed Aggregate Con	crete Paving											
			PD3	Mix Design												
			PD3	Material List and Source												
			SA1	Admixtures and Accesso	ories											
				Aggregate												
				Reinforcement												
			SA1	Joint Fillers												
			SD5	Concrete												

NOTE: Sample is provided as a suggested format only; generate actual using automated project execution control system and modify as needed to create the most effective management tool possible.

TYPE LEGEND SD = SHOP DRAWING, AD = ADMINISTRATIVE DATA, PD = PRODUCT DATA, AND SA = SAMPLE

	TRANSMITTAL		AL	DATE: 31 December 2099	N	EW:		INFORMATION:	ORIGINAL SUBMITTAL DATE: (31 December 2099) (N/A)				
TO: US Department of State Overseas Building Operations			·	FROM: ABC Contractors, Inc. Field Address Line 1 Field Address Line 2	PROJECT New Of	fice Building	g Co	ON, NUMBER: ompound and XJ-AA1234	CONTRACT NUMBER: S-OBO AD 03 - G-12345 Modifications: 001 - ???				
		SPEC	IFICATION		•	SUE	зміт	TAL					
NO.	SUBMITTAL NUMBER	SECTION NUMBER	PARAGRAPH NUMBER	DESCRIPTION	TYPE	NUMBER (DRAWING SHEET NUMBER	SUBSTITUTION	STATUS CODE			
1													
2													
3													
4													
5													
6													
transmit	t Documents. Whe	en submittals pro y annotated in th	his transmittal have be pose substitutions of the material presented Date	een prepared in strict conformance with the r deviations, these are identified on this d.									
	TANCE: ny A. Able oject Director/COF	3	Date	REMARKS: 1) Remarks 2) Remarks 3) Remarks 4) Remarks	TYPE COD ADx PDx SDx COx SAx	Adn Prod Sho Clos	duct l	awings t	AN A				

NOTE: Sample is suggested format; Contractor may modify to improve as management tool; see text for code explanation.

END OF SECTION

SECTION 013525 CONSTRUCTION SAFETY AND OCCUPATIONAL HEALTH

1.1 RELATED DOCUMENTS

- A. Latest edition, U.S. Army Corps of Engineers (USACE) Safety and Health Requirements Manual, EM 385-1-1 dated 30 November 2014. This document is available at the U.S. Government Printing Office, Washington D.C.
- B. NFPA Code 241, Standard for Safeguarding Construction, Alteration, and Demolition Operations.
- C. ANSI A10 Series Standards for Safety Requirements for Construction and Demolition.
- D. NFPA Code 51B, Standard for Fire Prevention during Welding, Cutting, and Other Hot Work.
- E. NFPA 10, Standard for Portable Fire Extinguishers.
- F. NFPA 70, National Electrical Code
- G. Department of State, Office of the Procurement Executive, PIB # 2015-05, Combating Trafficking in Persons.

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.
 - 2. Hazardous Work Permit Requests.
 - 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 Safety & Health Program Manager on-site when any construction activity is ongoing.
- B. For the duration of construction, the Contractor shall implement and manage a comprehensive safety and health program.
- C. The Project Director/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 Project Director/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 Project Director/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 PD before the start of any welding activities.
- 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 Project Director/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.

- 6. Safety and Health Training: The procedures for implementing training and orientation.
- 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 Project Director/COR.
- B. The PD/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 and beetlenut chewing 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.
- 2. The Contractor shall provide, place, and test periodically one (1) Automatic External Defibrillator (AED) in the Contractor's Project Site office. A CPR/AED training program shall be given to two (2) persons at each location who shall receive certification in first aid and CPR from the American Red Cross, the American Heart Association, or from an organization whose training adheres to the standards of the International Liaison Committee on Resuscitation. CPR/AED training shall contain a hands-on component. A certificate shall state the date of issue and length of validity.

E. Construction Site Sanitation and Health Facilities:

- 1. Facilities for workers shall be completed and ready to use prior to the start of construction.
- 2. The Contractor is encouraged to utilize semi-permanent or portable facilities where possible in compliance with the requirements of this Section.
- 3. The Contractor shall provide temporary facilities for workers: toilets and lunch area.
- 4. Toilets Facilities and Restrooms:
 - a. Design the number of toilet fixtures around the anticipated maximum number of workers at the Project Site and allow accessibility to all employees.
 - b. The construction and installation of toilet facilities shall be acceptable to the Project Director/COR and shall be in compliance with applicable jurisdictional codes.

- c. Provide hand-washing lavatories in close proximity to all toilet facilities
- d. Maintain an adequate supply of toilet paper and paper towels at all times.
- e. Comply with the requirements of the authority having jurisdiction for sewage disposal. Where non-sewer waste disposal systems are permitted, they shall be of a type accepted by the local health authorities having jurisdiction. Maintain all disposal systems in a sanitary condition.

SECTION 013550 CONSTRUCTION SECURITY

PART 1 GENERAL

1.1 SUMMARY

- A. This Section and its attachments provide explanation to the Contractor regarding labor requirements and the security. The requirements of this Section involve interface with a number of security-related Government entities. These entities are coordinated through the Overseas Buildings Operations (OBO) Contracting Officer's Representative (COR) in coordination with Regional Security Officer (RSO). The requirements include, but are not limited to:
 - 1. General security procedures.
 - 2. Information security.
 - 3. Personnel procedures.
 - 4. Materials security and logistics.
 - 5. Labor requirements for specific activities.
 - 6. Site access procedures.
 - 7. Inspections by the Government.
 - 8. Prohibited and restricted items and activities.

1.2 DEFINITIONS

A. For all terms not understood, request immediate clarification.

1.3 PERFORMANCE REQUIREMENTS:

- A. The Contractor shall comply with the Government's requirements for participating in the Project security procedures as specified in this Section. The Contractor shall also comply with requirements requested subsequent to issuance of the Notice to Proceed (NTP). The Contractor shall afford unrestricted access to work, allow surveillance and inspection by any Government personnel as authorized by the COR, and perform required security work when directed by COR. The Contractor shall maintain security, avoid the compromise of classified information and materials caused by unauthorized disclosures, and obtain appropriate security clearances.
- B. The Department of State (DOS) reserves the right, in its sole discretion, to determine suitability of Contractor personnel at the Project Site or otherwise involved in work related to this Project.

PART 2 PRODUCTS (Not Used)

PART 3 EXECUTION

3.1 GENERAL SECURITY PROCEDURES

A. All security requirements of the Contractor shall apply to all personnel on the project site (to include sub-contractor personnel).

3.2 PERSONNEL PROCEDURES

- A. Uncleared Personnel: Use of uncleared persons is not allowed.
 - 1. Uncleared Labor: Uncleared labor will submit to a background investigation and obtain approval of the COR and RSO before access is granted to Project Site or applicable Support Sites. The Contractor shall submit all information indicated in the RFQ, in sufficient time to permit processing prior to the anticipated date of employment. The estimated investigation processing time is 30 days. Uncleared labor is not authorized on the project site prior to a favorably adjudicated background investigation.
 - 2. The COR and RSO reserve the right to allow or deny access of persons and firms proposed to perform work or be present at the Project Site.
- B. Briefings: The Government reserves the right to conduct briefings and debriefings for all persons performing work. Required briefings and debriefings include, but are not limited to, the following:
 - 1. Management personnel are required to attend special security briefings and debriefings concerning reporting requirements on unusual incidents, activities, or information related to Project security as directed by the COR or RSO.
 - 2. Visitors to the Project Site will be required to attend an appropriate security briefing by the RSO or other Post security management personnel.

3.3 SECURITY REQUIREMENTS AND LABOR FOR SPECIFIC ACTIVITIES

- A. All work shall be performed by cleared Contractor provided labor.
- B. As determined by Post RSO, work in areas may require Government provided escorts.

3.4 SITE ACCESS PROCEDURES

- A. The Contractor shall comply with Post's access operations and procedures.
- B. The Government may issue identification badges. All personnel, to include sub-contractor personnel, are required to leave their badges upon leaving the Project Site. RSO will provide final direction and guidance on badging requirements.
- C. Search Procedures: The Government reserves the right to conduct searches of all personal belongings at the point of entering and leaving the Embassy Compound.

3.5 INSPECTIONS BY THE GOVERNMENT

A. The Government reserves the unqualified and unlimited right at any time to conduct security-related inspections of the Contractor's work, material,

EXHIBIT D: SPECIFICATIONS (Page 21 of 31)

equipment, personnel, and temporary facilities at the Project Site and any offsite support facilities, to include subcontractor offices, or temporary and offsite contractor offices, to include subcontractor offices, or temporary and offsite contractor offices. Contract Section H.6.21 requires the contractor to provide written notification to COR of any off-site locations at which project information will be stored.

- 1. In instances where authorized work must be disassembled, uncovered, or demolished then reassembled, recovered, or rebuilt to accommodate inspection in compliance with construction specifications and security requirements, resultant costs of such actions will be borne by the Government. The Contractor shall be responsible for resultant costs where inspected work is found to be non-compliant with Project specifications or where work was performed without Government authorization. The Government reserves the right to suspend operations where unauthorized work has been performed and where introduction or attempted introduction of unauthorized material has taken place.
- 2. Reported Violations: Where an indication, report, or observation of unauthorized access or performance of unauthorized work has occurred, the Government reserves the right to suspend operations and deny access until circumstance and work can be investigated, inspected, tested, and resolved. All costs of such stoppages and resolutions shall be borne by the Contractor, except when alleged violations, after investigation, are determined not to be in violation of security requirements.

3.6 PROHIBITED AND RESTRICTED ITEMS AND ACTIVITIES

- A. Prohibited/Restricted Items and Activities on Project Site include, but are not limited to, the following:
 - 1. Firearms and other weapons, except as specifically authorized by the COR.
 - Electronic media devices, including radios, recorders, transmitters, receivers, cell phones, cell phones with camera, video or audio recording capabilities, laptop computers, personal digital assistants (CORAs), smart phones (i.e. BlackBerrys, iPhones, etc.), media storage devices (i.e. thumb drives, jump drives), and similar items, except for authorized uses as approved by the COR, in accordance with site procedural documentation, and as allowed by Contract Section H.
 - 3. Contract Section H.6.17 and H.6.18.
 - 4. Drugs, including narcotics, barbiturates, marijuana, alcoholic beverages, and similar substances, except for use with a valid medical prescription.
 - 5. Explosives, except for use in specifically limited amounts and under controlled circumstances for work specified to be performed through use of explosives. Such use requires written prior authorization from the COR. As a hazardous material, the Contractor shall treat the use of explosives in accordance with guidance provided under Section 013525, Construction Safety and Occupational Health.
 - 6. Cameras, except in accordance with 3.11.B below.
- B. Photography

1. General: The use of photographic equipment and taking of photographs is restricted on and nearby the Project Site, as determined by the COR. Written requests for approval of photography must be submitted well in advance of time intended for such activity, stating reasons, uses and disposition of imaging media. The COR must review photographs and imaging media prior to removal from the site. The Government reserves the right to deny such use and release and limit to authorized purposes and distribution.

SECTION 013550 CONSTRUCTION SECURITY ATTACHMENT A – DEPARTMENT OF STATE (DOS) SECURITY PERSONNEL (BY U.S. GOVERNMENT)

1.1 INTRODUCTION

The information provided below complements, but does not replace, information provided in Chapter 2 of the OBO International Codes Supplement (OBO-ICS) IBC. Aside from the COR, who is ultimately responsible for ensuring that construction activities are accomplished in a manner that complies fully with applicable statues and security regulations, the following types of Government security personnel may be further assigned at the Construction Site to support this Project:

A. REGIONAL SECURITY OFFICER (RSO)

The RSO is the senior security officer for the Post. The RSO provides liaison with local authorities for security outside the Construction Site. If required, the RSO will conduct records checks and appropriate investigations on any local nationals and firms associated with the Project.

B. LOCAL GUARD FORCE

Local Guards may be used at the perimeter and other locations at the construction Site and may be provided through existing Post local guard contracts. The RSO is responsible for the acquisition, supervision, and qualifications of Local Guard Services.

C. MARINE SECURITY GUARDS (MSGs)

If the Construction Site is also the existing Chancery Site under 24-hour MSG control, CAGs may not be required to control access to the Site, work areas, or the SSA, provided the existing MSG Post resources are sufficient to accomplish the security requirements for the duration of the Project.

END OF ATTACHMENT A

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 Project Director/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.
- B. 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.
- C. 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

SECTION 015005 TEMPORARY FACILITIES AND CONTROLS

1.1 TEMPORARY CONSTRUCTION FACILITIES

A. GENERAL:

- 1. The Contractor is encouraged to utilize semi-permanent or portable facilities where possible in compliance with the requirements of this Section.
- 2. The Contractor shall comply with the latest version of the US Army Corps of Engineers, Safety and Health Requirements Manual EM385-1-1 with respect to all temporary facilities.
- 3. The Contractor shall provide temporary enclosures for weather and dust protection, security, visual, and acoustical separation, conservation of energy, comfort and efficiency of tradespersons, and effective separation of work by separate contractors and the Government.
- 4. The Contractor shall provide temporary enclosures for the protection of fabricated, installed, or cured work from weather. The enclosures shall secure the Site from possible loss and restricted (classified) access and other reasons as indicated.
- 5. The Contractor shall provide separate storage for flammable and combustible liquids. Refer to the most updated edition of the US Army Corps of Engineers, Safety and Health Requirements Manual EM 385-1-1 for additional requirements and information.
- 6. Materials:
 - a. The Contractor shall provide new materials of suitable grade for the intended purpose. Where applicable, the Contractor shall comply with related requirements for permanent work of this project.
 - b. The Contractor shall provide UL-labeled tarpaulins with a flame-spread rating of fifteen (15) or less and translucent, nylon-reinforced, laminations of polyethylene or PVC films, with similar fire-retardant ratings.
 - c. The Contractor shall provide UL-labeled, fire-treated lumber and plywood wherever wooden construction is not otherwise protected or covered to effectively reduce flammability. This shall apply to offices, tool sheds, storage rooms, scaffolds, walkways, fences, sidewalk bridges, other enclosures and barriers, and where contiguous wood exposure exceeds ten (10) square meters.
 - d. Roofing: The Contractor shall provide either UL Class "A" standard weight asphalt shingles (ASTM D 3018) or UL Class "C" mineral-surfaced roll roofing (ASTM D 249) on temporary offices, sheds, and enclosures.
 - e. Where appropriate, the Contractor shall provide a translucent-type enclosure to avoid the restriction of daylight.

B. Contractor's Field Office:

1. If Contractor requires field office space at the Project Site, Contractor shall provide it and shall include furnishings, fixtures and equipment, and be sized to accommodate the incidental field office needs of the supervision and administrative functions of the Contractor, subcontractors, suppliers, consultants, testing agencies, officials, separate contractors, and others engaged in Project work.

- 2. The entry/exit doors and server room doors shall be either solid core wood or hollow metal doors.
- 3. The Contractor shall provide, design, and install temporary technical security systems (TSS) to include:
 - a. Door contact on the entry/exit doors and server room doors,
 - PIR motion detectors
- 4. The field office, furniture and equipment shall remain the property of the Contractor.

1.2 PHYSICAL SECURITY REQUIREMENTS FOR TEMPORARY CONSTRUCTION FACILITIES

- A. Locate office facilities away from vehicle CACs, perimeters accessible to unauthorized vehicles, and maximize setback from the perimeter's anti-ram barriers.
- B. Office facilities for construction support personnel must be of substantial construction defined as follows:
 - 1. Exterior walls and ceilings covered with wood stud construction.
 - 2. Plywood substrate (20mm), with drywall (12mm).
 - 3. Window glazing of laminated glass or treated with an application of eight (8) mil shatter resistant window film.
 - 4. Grilles providing 5-minute FE protection on all exterior windows
 - 5. Reverse bevel exterior doors of solid core wood or hollow metal with metal frames, equipped with non-removable hinges, simplex mechanical pushbutton combination locks, dead bolt locks, and door viewers
- C. The contractor must provide and install duress buttons and door contacts at the entrance doors to office facilities for monitoring by the Post One.

1.3 TEMPORARY UTILITIES

A. General:

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

B. 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.

C. 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.

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 Project Director/COR with a request for inspection and Substantial Completion.
 - 4. Warranty Management Plan

1.2 WARRANTY MANAGEMENT AGENT

A. The Contractor shall designate 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 Project Director/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 Project Director/COR for all work or a defined portion thereof, the Contractor shall complete the following, as applicable:
 - 1. Reflect a 100 percent complete status or list non-substantial items that remain incomplete.
 - 2. Submit Operation and Maintenance Data.
 - 3. Submit Record Documents.
 - 4. Deliver extra materials in the manner requested by the Project Director/COR. to include:
 - a. Surplus Government-furnished materials.
 - b. Spare parts.
 - c. Extra stock of materials.
 - d. Keys to locks.
 - 5. Make physical adjustments, correct minor defects, touch-up finishes, and lubricate operating parts.

B. Request for Certification of Substantial Completion:

Following the inspection, the Contractor's QC Manager shall provide the Project Director/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. The Contractor shall notify the Project Director/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

1.5 FINAL ACCEPTANCE

A. General:

1. The Contractor shall notify the Project Director/COR at least **five (5) 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 work items, the Project Director/COR will recommend issuing the Certificate of Final Acceptance by the Contracting Officer.

1.6 RECORD DOCUMENT SUBMITTALS

- A. The Contractor shall develop and maintain an original mark-up set of Contract Documents and Submittals.
 - 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.
 - Maintain the As-Built documents and make available for USG review at any time.
 - c. Provide two (2) sets of DVD-ROMs, two (2) sets of full size drawings, and one (1) set of half size drawings to PD at Final Acceptance.
 - 2. Record Shop Drawings.
 - 3. Operation and Maintenance Data.

1.7 WARRANTY

The General Contractor's Warranty Management commences early in the start-up phase and ends at a period normally one year (12 months) from the issuance of substantial completion, unless otherwise agreed upon.

SECTION 017825 OPERATION AND MAINTENANCE DATA

1.1 SUBMITTALS

A. Schedule

- 1. O&M Library:
 - a. The Contractor shall submit two (2) draft hard copies and one (1) CD/DVD version of the complete Maintenance Library fourteen (14) calendar days prior to Substantial Completion.
 - b. The Government review period will be fourteen (14) 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
 - 1. An electronic copy of all submitted O&M library documents shall be created in PDF format.
 - a. Electronic copies must be readable by Adobe Acrobat Reader 8.0.
 - b. All PDF documents shall be word searchable.
 - c. The electronic format of the indices described above shall be hyperlinked to the O&M product data described below.
 - d. All sections and subsections shall be bookmarked to further facilitate the search functionality.
 - 1) Each CSI numbered section shall be bookmarked separately within the PDF file. Include the CSI number and the section title in the bookmark name.
 - 2) Include additional bookmarks for critical documents including Maintenance Plan, etc. within each section.
 - e. Labeling:
 - 1) Discs shall be labeled and include Post name, and month and year of Substantial Completion.
 - f. CD/DVD Instructions:
 - 1) 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."
 - 2)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
 - 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:
 - 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...
- 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.
- g. 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 building systems and installed equipment.

1.4 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 Dataplates:
 - 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 dataplates 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.

Attachment 2

US EMBASSY LIMA Facilities Management Section Contractor Safety Policy

This Document outlines the safety policy for contractors hired by the US Embassy Lima Facilities Management Section, which provides construction services and facility maintenance. The concern for safety, health, and welfare of all of our employees and hired Contractors has become our greatest asset. We must all continue to recognize that there is no other aspect of our work that takes greater priority.

It is the policy of the Facilities Section to:

- Provide safe working conditions,
- Perform all activities in ways that eliminate risk of injury or health impairment to any tradesperson,
- Maintain all areas in ways that eliminate risk to visitors and to the public, and
- Eliminate risk of damage to property on and adjacent to every jobsite.

These are basic responsibilities of every company and individual on every jobsite. All supervisors of all trades must routinely accept complete responsibility for prevention of accidents and for the safety of all work under their direction. All trades people of every category are required to conduct themselves in a safe, considerate, and workmanlike manner.

By contract and by law, every company and person employed on the site is obligated at a minimum to comply with this safety policy document, the Federal Occupational Safety and Health Act, Americans with Disabilities Act, and the laws of every entity having jurisdiction over the work and the site.

Any company or individual refusing to correct observed safety violations will be banned from the site at least until such violations are corrected, and will be held completely responsible for all resulting effects.

The collective results of all our direct attention to safety objective will contribute to success, pride, and security that goes with it. Conduct with respect to safety will affect the manner in which the performance of all employees will be measured.

Although we enjoy a safety record to be proud of, our goal is 100% accident-free work, while ensuring our history of enduring quality work and satisfied clients. The good intentions, cooperation and good judgment of all employees in the use of safe and responsible work practices is the path toward continued personal and company improvement, and must be pursued each day.

A. DISCIPLINARY ACTION AND PROCEDURE FOR SAFETY VIOLATIONS

A.1 Policy

Compliance with all safety rules and procedures is a condition of contract agreement when working for the US Embassy Lima. All contractors and their employees must familiarize themselves with safety rules and procedures, and comply with them in every respect. Supervisory, administrative, and management personnel at all levels are responsible for taking immediate corrective action when a violation is observed. Contractors are responsible for their crews' compliances.

Any person causing or knowingly allowing an unsafe condition to remain shall be subject to a warning and possible dismissal. Contractors guilty of intentional, serious, and/or repeated violations will be subject to a contract termination.

A.2 Disciplinary Action

If a violation is observed, or comes to the attention of any Embassy supervisor or management personnel, action must be taken immediately to correct the violation. Immediately thereafter, the POSHO is to be notified. The POSHO will then follow the procedures below for necessary disciplinary action:

First Warning:

The first warning will require the person to immediately leave the jobsite. The individual may return the following workday, provided there is not a safety violation. A verbal and written warning, with a copy of the Safety Violation Warning Notice will be given to the contractor and distributed to the project and contractor files.

Second Warning:

The second warning will again require the person to immediately leave the jobsite. That individual will no longer be allowed on a US Embassy jobsite. A written notice will be given to the contractor, be retained by the POSHO and be distributed to the project and contractor files. A meeting will be held with the contractor and the POSHO in order to determine why the individual is not willing to comply with the rules and regulations. Any further action taken at this time will be determined by management, and be based upon the severity of the violation.

Third Warning:

A third violation by the same company will result in a written notice which will be given to the contractor, be retained by the POSHO, and be distributed to the project and contractor file. Three (3) warnings for safety violations may result in termination of contract.

The actions listed above must be taken when a violation is observed. The US Embassy Beijing cannot tolerate actions or negligence that may result in injury. If there are any questions concerning this policy and procedure, contact the POSHO.

B. FIRST AID

The contractor is responsible for providing first aid and medical treatment for their own employees and any subcontractors employed by the contractor. The contractor is also responsible to ensure that the names, addresses and telephone numbers of the contractor's doctors, hospital, and ambulance services are conspicuously posted as required by law.

The Facilities Section will provide a first aid kit for use by all parties, located at its jobsite field office. The subcontractor is required to provide it's own first aid kit conspicuously located in the vicinity of each of its work areas, and readily accessible at all times. Each first aid kit is to be of an appropriate size for the respective crew.

C. CONTRACTOR EMPLOYEE ORIENTATION AND TRAINING

The contractor shall provide and enforce an adequate ongoing safety program for the benefit of its employees. At a minimum, the contractor is required to:

- 1. Present its safety and loss control orientation program to each new employee prior to that employee's start of work.
- 2. Inform their employees of all safety and health rules pertaining to their particular work assignment.
- 3. Inform their employees of the location(s) and uses of all safety equipment and devices; such as first aid kits, fire extinguishers, personal protective devises, personal transport devices, communication equipment, etc.
- 4. Conduct monthly safety meetings for its supervisory employees and weekly tailgate safety meetings for all employees, including appropriate documentation of all meetings.
- 5. Implement a regular system of inspection of all work areas with the intention to detect and correct hazardous and potentially hazardous conditions, violations of any safety rule, and unsafe working practices.

D. CONTRACTOR EMPLOYEE CONDUCT

All contractor's employees are to be made aware of the following minimum rules of conduct, and will be required to comply with all such rules. Failure to comply may result in that company or it's employee being temporarily or permanently barred from the site, at the sole discretion of the US Embassy Lima.

- 1. Alcoholic beverages and illegal drugs are strictly prohibited.
- 2. Employees entering the jobsite in the possession of or under the influence of alcohol or illegal drugs or controlled substances shall be subject to immediate ejection from the jobsite.
- 3. No firearms or weapons of any kind are allowed on the jobsite.
- 4. Fighting, gambling, stealing, soliciting, and horseplay of any kind is strictly prohibited.

- 5. Abusive language or disrespectful behavior is prohibited.
- 6. All accidents are to be reported on the same day as the accident occurrence.
- 7. All non-emergency treatment of accidents is to be authorized by the injured employee's immediate supervisor.
- 8. All employees are to be made aware of any jobsite alarms and emergency code signals.
- 9. Hardhats and construction grade shoes or boots are to be worn at all times.
- 10. Seat belts are to be worn at all times when in company vehicles and equipment.
- 11. Jobsite roadways and walkways are not to be blocked without prior approval of the foreman.
- 12. Proper hygiene will be expected of each employee.
- 13. All other written and spoken safety rules are to be followed explicitly.

E. EMPLOYEE CLOTHING AND PERSONAL PROTECTIVE EQUIPMENT

The contractor is responsible to ensure that all contractor's employees comply with minimum requirements for clothing worn in work areas, and that all contractor's employees have available to them and use all personal protective equipment required by their individual work assignments. Failure to comply may result in suspension of the work being performed by those employees until the clothing or equipment need is corrected. At a minimum:

- 1. The contractor is to provide and require the use of all protective devices and personal protective equipment by its employees at all times as required by their respective work activities.
- 2. Approved eye and face protection must be worn when conditions require. Safety glasses are required in all circumstances where there is the possibility of exposure to flying debris or particles. Side shields should also be worn whenever possible.
- 3. Plastic face shields should be worn wherever there is the possibility of flying particles and spraying of liquids or corrosive substances.
- 4. A hard hat is to be worn at all times.
- 5. Only full-covered leather work shoes are allowed. Sneakers, canvas shoes, or shoes that are open in any way are not allowed.
- 6. Shirts must be worn at all times. Sleeveless shirts and tank tops are not allowed.
- 7. Shorts are not allowed. Full-length pants must be worn at all times.
- 8. Jewelry is not to be worn on the jobsite at any time. A watch may be worn unless the employee is performing any task, which may result in the watchband being caught, or an object becoming lodged between the band and skin. Watchbands should be of the expansion type, so that they would slip off if they get caught.

ANNEX CHILLERS REPLACEMENT PRICE SCHEDULE BREAKDOWN

US EMBASSY LIMA PERU

PROJECT: ANNEX CHILLERS REPLACEMENT

LOCATION: ANNEX BUILDING PREPARED BY: E. RAMIREZ

DATE: AUGUST 2018

ITEM	DESCRIPTION	Unit	Qty	EACH US \$	SUB-TOTAL US \$
1.00	EQUIPMENT				
1.01	Provide new screw chillers Trane RTAC140 or equiv.	each	2		
1.02	In Land Freight	glb	1		
1.03	Ocean Shipping & Custom expenses	glb	1		
	Sub- total				
2.00	INSTALLATION				
2.01	Mobilization	glb	1		
2.02	Remove Penthouse structure	glb	1		
2.03	Assenbling of Penthouse structure	glb	1		
2.04	Crane expenses to remove and Ift chillers	each	2		
2.05	Electrical disconnection of existing chillers and connection of the new ones and BAS integration	each	2		
2.06	Disassembly of existing Chilled Water Water Piping. Supply and installation of new Chilled water piping and supports	each	2		
2.07	Thermometers, gauges, flexible connections	each	2		
2.08	Disposal of Existing Chillers, includes lifting maneuvers, truck and proper disposal of units.	each	2		
2.09	Factory trained technician for Start Up and Commissioning	each	2		
2.10	Supervision	glb	1		
2.11	Demobilization	glb	1		
	Total Installation Expenses				
	Overhead & Profit 15%				
	Partial				
	IGV (18%)				
	Sub-Total				

TOTAL

PROPOSED PERFORMANCE CHART

TO: COPNTRACTING OFFICER		1. FROM		2. VIA				3. REPC	RT FOR	PERIOD	ENDING	;	REPOR	T NUMB	ΞR	
US Embassy 5. SOLICITATION NUMBER				8. SUBMITTED FOR APPROVAL (SIGNATURE) 9. APPROVAL RECOMMENED			DATE		LEGEND BAR PROGRESS TO DATE OF REPORT			0% 50)	100	
6. LOCATION				10. APP						ACTUAI CURVE	_ PROGF	RESS		ACTU		
PRINCIPAL CONTRACT FEATURE	WT%	EST. COST	WK DATE=>	1	2	3	4	5	6	7	8	9	10	11	WKS/M	THS
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Attachment 5

US EMBASSY	CONTRACTOR'S DAILY CONSTRUCTION REPORT
CONTRACT NUMBER:	DAILY REPORT NUMBER:
PROJECT NUMBER:	DATE:
CONTRACTOR:	-
LOCATION:	DESCRIPTION:
WEATHER:	☐ WINDY ☐ FOG TEMP: AM PM
	COMPLISHED, MATERIALS DELIVERED, ETC):
	-
NATURE OF DEFECTS FOUND (INCLUDE DESCRIPTION):	SPEC AND/OR DWG NO., LOCATION AND
DIRECTIONS RECEIVED OR ISSUED (ST	ATE BY WHOM):
	INFORMATION ON BACKSIDE OF THIS FORM***
COR/US EMBASSY PERSONNE	L TO COMPLETE THIS SECTION
☐ CONCUR WITH CONTRACTOR'S CON	ΜΜΕΝΤΟ ΔΡΟΝΕ
	THEIRID TIDOVE.
☐ DO NOT CONCUR. (SEE COMMENTS	S BELOW)
REMARKS:	·
COMPLETION DATE:	WORK COMPLETED TO DATE:%
PROBABLE COMPLETION DATE	ACCORDING TO PROGRESS CHART%
	·
COR'S SIGNATURE	DATE:
CONTRACTING OFFICER *******USE BACKSIDE OF THIS FORM	IF ADDITIONAL SPACE IS NEEDED******

EMPLOYEE'S NAME	TRADE	EMPLOYER'S NAME PRIME/SUB	NO. HOURS WORKED

	SHOP DRAWIN	NG/MATERIAL APPRO)VAL F	REQUI	EST	
	NOTE: ALL ENTRIES WILL BE	FILLED IN BY TYPEWRITER OR PEN IN	K PRO	JECT NO: _		
FROM: CONTR	ACTOR					
	ACT NUMBER		DATE			
	IODE FORMS DECLURED	SUBMISSION NUMBER				
IV.	ORE FORMS REQUIRED	TYPE OF SUBMITTAL	GOV	FRNMENT	USE ONLY	7
	□ NO □ YES	NEW RESUBMITTAL OF #		EIG WEIVI	CDE ONE	
ITEM	SPECIFICATION		AP	AP	DISAP	
NO	SECTION AND	DESCRIPTION OF MATERIAL	PROVED	PROVED AS	PROVED	INT
	PARAGRAPH NO			NOTED		
CONTR	ACTOR CERTIFIES THAT MAT	TERIALS COMPLY WITH BUY AMERCIA	N ACT (FAR :	52.225-09)	ı	I
	NO OF COPIES TO	BY (NAME AND TITLE)		SIGNAT	URE	
(11	C. F. alarma					
(U	S Embassy)	COMMENTS				
		<u>COMMILITY IS</u>				
		FOR GOVERNMENT USE ONLY				
		US EMBASSY				
TO: CO	NTRACTING OFFICER	OB LINDINGS I				
		APPROVAL AS INDICATED AND SUBJECT	TO APPLICAL	BLE COMM	ENTS ABOV	Æ.
TY	PED NAME AND GRADE	SIGNATURE		DAT	E	
TO: CO	NTRACTOR	CONTRACTING OFFICER				
		ED AS INDICATED AND SUJECT TO ANY	APPLICARI	E COMMEN	NTS ABOVE	₹.
	QUEST PROMPT RESUBMITTA			_ COMMIL		
	TYPED NAME	SIGNATURE		DAT	E	

CONTRACTOR SUBMITTAL REVIEW PROCEDURES

The Contractor shall submit to the Contracting Officer for approval THREE (3) copies of all shop drawings as called for under the various headings of the contract specifications. These drawings shall be complete and detailed. If approval by the Contracting Officer, each copy of the drawings will be identified as having received such approval by being stamped and dated. The Contractor shall make any corrections required by the Contracting Officer. If the Contractor considers any corrections indicated on the drawings as constituting a change to the contract drawings or specifications, notice as required under the clause entitled "Changes" will be given to the Contracting Officer. Two (2) sets of all shop drawings will be retained by the Contracting Officer and one (1) sets will be returned to the Contractor.

The approval of the drawings by the Contracting Officer shall not be construed as a complete check, but will indicated only that the general method of construction and detailing is satisfactory. Approval of such drawings will not relieve the Contractor of the responsibility for any error which may exist as the Contractor shall be responsible for the dimensions and design of adequate connections, details, and satisfactory construction of all work.

Deliver Submittals to:	
_	_

Contracting Officer's Representative

LETTER OF BANK GUARANTY

	Place []	
	Date []	
Contracting Officer			
U.S. Embassy, [Post name]			
[Mailing Address]			
	Letter of	Guaranty No	
SUBJECT: Performance and Guaranty			

The Undersigned, acting as the duly authorized representative of the bank, declares that the bank hereby guarantees to make payment to the Contracting Officer by check made payable to the Treasurer of the United States, immediately upon notice, after receipt of a simple written request from the Contracting Officer, immediately and entirely without any need for the Contracting Officer to protest or take any legal action or obtain the prior consent of the Contractor to show any other proof, action, or decision by an other authority, up to the sum of [Amount equal to 50% of the contract price in U.S. dollars during the period ending with the date of final acceptance and 10% of the contract price during contract guaranty period], which represents the deposit required of the contractor to guarantee fulfillment of his obligations for the satisfactory, complete, and timely performance of the said contract [contract number] for [description of work] at [location of work] in strict compliance with the terms, conditions and specifications of said contract, entered into between the Government and [name of contractor] of [address of contractor] on [contract date], plus legal charges of 10% per annum on the amount called due, calculated on the sixth day following receipt of the Contracting Officer's written request until the date of payment.

The undersigned agrees and consents that said contract may be modified by Change Order or Supplemental Agreement affecting the validity of the guaranty provided, however, that the amount of this guaranty shall remain unchanged.

The undersigned agrees and consents that the Contracting Officer may make repeated partial
demands on the guaranty up to the total amount of this guaranty, and the bank will promptly
honor each individual demand.

period of Contract requi	all remain in effect until 3 months after completion of the guaranty ement.
Depository Institution: [I	ame]
Address:	Location:
Representative(s):	State of Inc.:
	Corporate Seal:

Certificate of Authority is attached evidencing authority of the signer to bind the bank to this document.

Attachment 8

GENERAL SERVICES OFFICE, US EMBASSY REQUEST FOR PROGRESS PAYMENT (INVOICE)								
PROJECT: Contract No	CONTRACTOR:							
Name	(Name, Address)							
APPLICATION DATE: APPLICATION NO								
TO: Contracting Officer, US EMBASSY								
NOTE: (Must obtain COR signature before processing)	PERIOD FROM: TO							
I hereby certify, to the best of my knowledge and belief that: (1) The amounts requested are only for performance	Application is made for Payment, as shown below in connection with the Contract. The present status of the account for this Contract is as follows:							
in accordance with the specifications, terms and conditions of the contract: (2) Payments to subcontractors and suppliers have	ORIGINAL CONTRACT SUM							
been made from previous payments received under the contract and timely payments will be made from the proceeds of the payment covered by this certifica-	NET CHANGE BY MODIFICATIONS\$							
tion.	CONTRACT SUM TO DATE \$							
(3) This request for progress payments does not include any amounts which the prime contractor	TOTAL COMPLETED-STORED TO DATE\$							
intends to withhold or retain from a subcontractor or supplier in accordance with the terms and conditions of the subcontract.	RETAINAGE%\$ TOTAL EARNED LESS RETAINAGE\$							
SIGN	LESS PREVIOUS PAYMENTS \$							
(Title)(Date)	CURRENT PAYMENT DUE							
CONTRACTING OFFICER: Representative's certification of receipt of services at project site. Changes to requested amount have been initiated.	ACCOUNTING DATA							
Sign and Date								
Print phone number and mailing address of person to be notified in event the Contracting Officer finds this application to be defective.	BY: DATE:							
(Address)	COR							
(Phone)	Approved for Payment of \$							

	NUATION SHEET				TRACT No							
FOR R	EQUEST FOR PROGRESS PAYME	ENT	APPLICTION NO					1				
			WORK COMPLETED		(1)*	TOTAL COMPLETED		BALANCE	,			
ITEM	DESCRIPTION OF WORK	SCHEDULED	PREVIOUS	THIS	STORED	AND STORED	TO	TO FINISH	RETAINAGE			
NO.	D.	VALUE	APPLICATIONS	APPLICATION	MATERIALS	DATE		II (G , G)	_ !			
Α.	В.	C.	D.	E.	F.	G(D+E+F)	%	H(C-G)	I.			
ı												
(1)* :	(1)* STORED MATERIALS - Unincorporated material delivered to the job site. Request for payment for uninstalled											
\ - / '			d to the job s									