

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES 1	
2. AMENDMENT/MODIFICATION NO. A001		3. EFFECTIVE DATE April 12, 2013		4. REQUISITION/PURCHASE REQ. NO.	
5. PROJECT NO. (If applicable)		6. ISSUED BY U.S. Embassy Lisbon Avenida das Forças Armadas 1649-044 Lisboa		7. ADMINISTERED BY (If other than Item 6) CODE	
8. NAME AND ADDRESS OF CONTRACTOR (NO., street, city, county, State, and ZIP Code)		9a. AMENDMENT OF SOLICITATION NO. SPO500-13-Q-0004		9b. DATED (SEE ITEM 11) March 21, 2013	
		10a. MODIFICATION OF CONTRACT/ORDER NO.		10b. DATED (SEE ITEM 13)	
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
<p>[X] The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers [] is extended, [X] is not extended</p> <p>Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning 3 copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers.</p> <p>FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.</p>					
12. ACCOUNTING AND APPROPRIATION DATA (If required)					
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.					
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.					
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b)					
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:					
D. OTHER (Specify type of modification and authority)					
E. IMPORTANT: Contractor [] is not, [] is required to sign this document and return _____ copies to the issuing office.					
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)					
Section 1- 6.3 Summary Services (Page 7, third paragraph) is revised to read as follows: "At minimum, the contractor will perform the following tasks, if applicable." Section 1 – 6.3 Summary Service (Page 7), Procedures (Regular Operating Season Inspections) Paragraph 3. is revised to read: "3. Record system operating temperatures and pressures in the Multi Stack Operator's Log Section 1 – (Page 9) Engineer's Notes paragraph 2. Is revised to read as follows: "2. Record data in Multi Stack Chiller/Compressor Operating Log." Section 1 – (Page 9) – Maintenance Task – E52 was removed. Attachment 1 was amended. Attached are the pages changed – Page 7 – 12 and 15					
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.					
15A. NAME AND TITLE OF SIGNER (Type or print)			16A. NAME OF CONTRACTING OFFICER Anthony Loh		
15B. NAME OF CONTRACTOR/OFFEROR BY _____ (Signature of person authorized to sign)		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA BY _____ (Signature of Contracting Officer)	
				16C. DATE SIGNED April 12, 2013	

6.3 Summary of Services

Multi Stack Meglev Chiller: Model ASP75T

Multi Stack Heat Recovery Chiller: H570X6H2HO H550X6H2H0

To maintain the designated type Chiller/s, in accordance with the manufacturer's specifications, the Contractor shall perform all of the following services:

At a minimum, the contractor will perform the following tasks, if applicable.

MAINTENANCE TASK:

	<u>Frequency</u>
Air Cooled Chiller	Regular Inspection Annual Inspection

MAINTENANCE TASK DESCRIPTION:

1. Check operational status parameters (Regular/Annual Inspections).
2. Check electrical operating parameters (Regular/Annual Inspections).
3. Check for leaks (Annual Inspection).
4. Check oil chemistry (Annual Inspection).
5. Check wiring connections for tightness (Regular/Annual Inspections).
6. Clean and inspect (Regular/Annual Inspections).

SPECIAL INSTRUCTIONS:

1. Follow site safety procedures and supervisor's instructions.
2. Schedule outage with operating personnel.
3. Use extreme caution when climbing roof access ladders.
4. Perform applicable lockout/tag out steps of site safety procedures.
5. Record and report equipment damage or deficiencies.
6. Review and follow the manufacturer's O&M instructions.
7. Follow safety and environmental procedures for the handling and disposing of refrigerants and compressor oil.
8. Don't vent refrigerants. Refrigerants must be recovered.
9. Record quantities of refrigerants and compressor oil, added or removed.
10. Record results in the equipment history log.

PROCEDURES (Regular Operating Season Inspections):

1. Check oil level in oil separator sight glass.
2. Check liquid line sight glass/moisture indicator.
3. Record system operating temperatures and pressures in the Multi Stack Operator's Log.

4. Check programmable operating set points and safety cutouts. Assure they are correct for the application.
5. Check compressor and evaporator heater operation.
6. Check superheat on the evaporator and the economizer feed to the compressor.
7. Check condenser sub-cooling.
8. Check for dirt in the Panel. Check door gasket for sealing integrity.

TOOLS, MATERIALS, AND EQUIPMENT (Regular Operating Season Inspections):

1. Mechanic's tool set. Refrigeration tools.
2. Rags and cleaning materials.

PROCEDURES (Annual Equipment Shutdown and Inspections):

1. Sample compressor oil, check for acid, and replace if necessary.
2. Disconnect power source and lock out. Check tightness of power wiring connections.
3. Check the chiller for leaks.
4. Thoroughly clean the condenser coils.
5. Test fans for proper operation.
6. Perform operational test and return to service.
7. Remove debris from work-site.
8. Clean mesh strainers

TOOLS, MATERIALS, AND EQUIPMENT (Annual Equipment Shutdown and Inspections):

1. Mechanic's tool set. Refrigeration tools.
2. Leak tester.
3. Pressure washer.
4. Fin comb.
5. Cleaning materials.
6. Compressor oil.
7. Ladder.
8. Personnel protective equipment (PPE) for handling refrigerants.

NOTE: THESE MAINTENANCE CHECKS MUST BE PERFORMED AT THE SPECIFIED TIME INTERVAL BY AN INDUSTRY CERTIFIED TECHNICIAN WHO HAS BEEN TRAINED AND LICENSED BY ACCREDITED AND RECOGNIZABLE INSTITUTION TO WORK ON THIS TYPE OF AIR CONDITIONING EQUIPMENT. A RECORD OF THIS PROCEDURE BEING SUCCESSFULLY CARRIED OUT MUST BE MAINTAINED ON FILE BY THE EQUIPMENT OWNER SHOULD PROOF OF ADEQUATE MAINTENANCE BE REQUIRED AT A LATER DATE FOR WARRANTY VALIDATION PURPOSES. NOTE: RCM PROCEDURE CM-0002 (QUALITATIVE INFRARED TESTING) IS TO BE COMPLETED IN CONJUNCTION WITH THIS MAINTENANCE CHECKLIST.

Engineer's Notes:

1. See manufacturer's specification for limit regarding maximum number of plugged tubes.
2. Record data in Multi Stack Chiller/Compressor Operating Log.

MAINTENANCE TASK:

<u>PM No.</u>	<u>Title</u>	<u>Frequency</u>
A22	Chiller/s	Annual

MAINTENANCE TASK DESCRIPTION:

1. Clean and inspect unit. (Annual)
2. Clean and inspect fan motors. (Annual)

SPECIAL INSTRUCTIONS:

1. Perform applicable lockout/tag out steps of site safety procedures to ensure machinery will not start.
2. Schedule outage with operating personnel.
3. Use extreme caution when climbing roof access ladders.
4. Follow site safety procedures and your supervisor's instructions.
5. Record and report to your supervisor any equipment damage or deficiencies found during this maintenance task.
6. Review and follow the manufacturer's O&M instructions.

PROCEDURES: (ANNUAL INSPECTIONS)

1. Remove debris from air screen and clean underneath unit.
2. Pressure wash coils with coil clean solution or water as required.
3. Straighten fin tubes with fin comb.
4. Inspect controller for proper operation. Inspect electrical connections for tightness.
5. Inspect for and remove corrosion rust from unit and supporting steel, prime and paint as necessary.
6. Clean strainer(s) in the system
7. Inspect and lubricate fan motors.
8. Cycle all valves at least two times.
9. Verify proper operation of fans.
10. Clean up work area.

MAINTENANCE TASKS: Heat Recovery Chiller

ANNUAL PROCEDURES

1. Clean Mesh filters in the strainers in the condenser and evaporator inlet head.
2. Check oil level in the compressors.
3. Check superheat. Factory settings is 10 – 12 degrees
4. Check Sub Cooling. Factory setting is 10 – 20 degrees.
5. Check all electrical components and tighten connections.
6. Check heat exchanger.
7. Clean heat exchanger is necessary.
8. Clean evaporator and condensers as required.
9. Check all safety devices.
10. Check Evaporator pump and lubricate as required.
11. Check Condenser pump and lubricate as required.
12. Check all connections in the control panel.

TOOLS, MATERIALS, AND EQUIPMENT: (ANNUAL INSPECTIONS)

1. Mechanic’s tool set.
2. Personal protective equipment.
3. Lubricants.
4. Cleaning materials.
5. Pressure washer.
6. Paint and brushes (as required).
7. Fin comb.

MAINTENANCE TASK:

<u>PM No.</u>	<u>Title</u>	<u>Frequency</u>
E15	Panel, Electronic Controls	Annual Every Two Years

MAINTENANCE TASK DESCRIPTION:

1. Check and clean panel ventilation fan (Annual Inspections).
2. Change system battery (2 Years).

SPECIAL INSTRUCTIONS:

1. Schedule outage with operating personnel.
2. Record and report equipment damage or deficiencies.
3. Record results in the equipment history log.

PROCEDURES: (ANNUAL INSPECTIONS)

1. Clean panel interior.
2. Verify functionality of supported devices.
3. Clean ventilation filter and fan (if applicable).
4. Submit a Work Order to correct deficiencies.

TOOLS, MATERIALS, AND EQUIPMENT: (ANNUAL INSPECTIONS)

1. Electronic tool kit.
2. Cleaning materials.

PROCEDURES: (2 YEARS INSPECTIONS)

1. Replace system battery where applicable.

TOOLS, MATERIALS, AND EQUIPMENT: (2 YEARS INSPECTIONS)

1. Batteries.
2. Electronic tool kit.

MAINTENANCE TASKS: Heat Recovery Chiller

ANNUAL PROCEDURES

1. Clean Mesh filters in the strainers in the condenser and evaporator inlet head.
2. Check oil level in the compressors.
3. Check superheat. Factory settings is 10 – 12 degrees
4. Check Sub Cooling. Factory setting is 10 – 20 degrees.
5. Check all electrical components and tighten connections.
6. Check heat exchanger.
7. Clean heat exchanger is necessary.
8. Clean evaporator and condensers as required.
9. Check all safety devices.
10. Check Evaporator pump and lubricate as required.
11. Check Condenser pump and lubricate as required.
12. Check all connections in the control panel.

TOOLS, MATERIALS, AND EQUIPMENT: (ANNUAL INSPECTIONS)

1. Mechanic's tool set.
2. Personal protective equipment.
3. Lubricants.

4. Cleaning materials.
5. Pressure washer.
6. Paint and brushes (as required).
7. Fin comb.

6.3 PERSONNEL, TOOLS, MATERIALS AND SUPPLIES

The Contractor shall provide trained manpower with the appropriate tools and testing equipment for scheduled routine maintenance, safety inspection, and safety testing as required by this contract. The Contractor shall provide all of the necessary materials, and supplies to maintain, service, inspect and test the equipment as required by this contract.

- **Incidental Repairs:** Minor repair service labor provided during inspection visits is covered by this contract. Any individual unit or incident of repair is not covered by this contract. Such repairs will normally be accomplished by separate purchase order or contract. This exclusion does not apply if the repair is to correct damage caused by Contractor negligence.

7.0 INSURANCE

7.1 **Personal Injury, Property Loss or Damage (Liability).** The Contractor assumes absolute responsibility and liability for any and all personal injuries or death and property damage or losses suffered due to negligence of the Contractor's personnel in the performance of this contract.

The Contractor's assumption of absolute liability is independent of any insurance policies.

7.2 **Insurance.** The Contractor, at its own expense, shall provide and maintain during the entire period of performance of this contract, whatever insurance is legally necessary.

8.0 PERMITS

The Contractor shall maintain full force and effect all permits, licenses, and appointments required for the prosecution of work under this contract with no additional cost to the Government. The Contractor shall obtain these permits, licenses, and appointments in compliance with host country laws.

9.0 GOVERNMENT FURNISHED PROPERTY/EQUIPMENT

The Contractor shall physically inventory all Government furnished property in its possession. Physical inventories consist of sighting, tagging or marking, describing, recording, reporting, and reconciling the property with written records. The Contractor shall conduct these physical inventories annually during the contract and at the completion or termination of the contract, as directed by the COR. Unless approved in advance by the Contracting Officer, personnel other than those who maintain the property records or who have custody of the property shall conduct the inventory.

