East Hawaii Region

EMERGENCY PROCUREMENT REQUEST

1. TO: Regional Chief Executive Officer

2. FROM: Project Management
Department/Division/Agency

Pursuant to East Hawaii Region Policy PUR 005; the Department requests approval for the following:

3. Date: 06/13/2025 4. After the fact ☐ YES ☒ NO

5. **Nature of the Emergency**

AHU-12, which serves the Clinical Lab space suffered an unexpected catastrophic failure of the fan blower. On the fan side, the blades have been mangled and portions have sheared off the assembly completely. Repair of the fan blower is not possible due to the nature of the failure. We do not have a replacement fan blower or components that will work in that particular air handler. AHU-12 serves a critical area with a high heat load and temperature sensitive inventory and equipment.

6. Vendor: Civil Mechanical Contractor Address: 99-1233 Halawa Valley Street, Aiea, Hawaii 96701	7. Price: $172,000.00

8. Description of goods, services, or construction to be purchased

Taking into consideration the multiple factors related to this failure we requested pricing for a replacement air handler. We looked at the current unit specifications and the original as-built specifications and selected the most appropriate unit according to the available information. The new unit shall be a Carrier Model 39MN which is the same model as the current air handler. The dimensions are the same to facilitate the most efficient installation. The current unit has been retrofit with a 25hp motor to replace of the original 20hp motor so we requested that the vendor match the existing. We also requested that the vendor size the unit to be able to accommodate the 4" static pressure that the duct system was originally designed for. This is to ensure that we don't experience back feeding conditioned air in the duct run through the store room which has caused significant problems in the past. Civil Mechanical Contractor, the vendor, will be responsible for disconnecting, removing, and disposing of the existing unit. They will then install the new air handler, reusing the existing ductwork, disconnect, VFD, control and isolation valves, and duct devices. HBMC will then work with Carrier to re-establish communication to the unit via I-Vu. Included in the purchase is a standard manufacturer's 1-year parts and labor warranty.

9. Reason for Vendor Selection

Due to the nature of the failure and the area the air handler serves, time is a priority. When AHU-12 failed we had to immediately address temperature issues at the Blook Bank and the greater Lab space to preserve blood stores and temperature sensitive analyzers and equipment. Within a day, we received a quote from a separate vendor to replace the fan blower. The lead time for this purchase would have been 8-9 weeks pending no delays. We also received a proposal from Civil Mechanical Contractor to replace the entire air handler. Per email sent on Monday, June 9, 2025, from Cori Gono, they would be able to have the AHU onsite the week of August 18,2025 if Civil Mechanical Contractor can get a purchase order and release by Thursday, June 12, 2025. That is approximately a 9 week lead time. Since the lead times are the same for either option, we then looked at the risk/benefit of each. If we replaced the fan blower assembly alone, we would likely see the same conditioned air back feeding we are currently trying to address in the store room. We would also have the same issues addressing the current heat load in the Clinical Lab space. These conditions are directly related to the current unit operating at ~1.5" static pressure through a duct system that is designed for 4" static pressure (per HBMC As-Builts). On the other hand, if we replaced the unit, which is 12 years old, we would have the opportunity to address the static pressure issue. This would enable us to properly pressurize the main duct to allow conditioned air to reach the Clinical Lab space and meet design cfms. We also took into consideration the fact that we have a VFD to modulate AHU-12. The current unit has been running at 100% motor speed and 100% open control valves to supply the greatest volume of air at the coldest temperature to the Clinical Lab space. By sizing the AHU to the designed static pressure we will theoretically maximize our supply air while retaining the ability to modulate the motor speed as necessary. We also have the advantage of VAVs in the system to control supply air at each space. At the moment, the Clinical Lab VAVs are all locked out at 100% open to accommodate the high heat load. In addition, Civil Mechanical Contractor is currently mobilized and working in the store room to address the duct insulation issues and they will be at the tail end of this project when the unit is slated to arrive. Therefore, they can immediately direct manpower to the demo of the existing AHU-12 and installation of the new AHU. Civil Mechanical Contractor deals directly with the Carrier factory as they have been doing for many years, which is the reason they are able to procure mechanical equipment with expedited lead times.

10. Direct questions to: Kyle Usui Phone: 8088953486

11. ***I certify that the information provided above is to the best of my knowledge, true and correct.***

Kris Wilson	06/13/2025	Kris Wilson
Dept Head or Designee	Date	Print name of dept. head

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RCEO Comments:

☐ APPROVED ☐ DISAPPROVED ☐ NO ACTION REQUIRED

Regional Chief Executive Officer Date