

STATE OF HAWAII
DEPARTMENT OF DEFENSE
OFFICE OF THE ADJUTANT GENERAL
3949 DIAMOND HEAD ROAD
HONOLULU, HAWAII 96816-4495

August 28, 2014

ADDENDUM NO. 1

Furnish & Install Solar Renewable Energy System at Hanapepe Readiness Center,
State of Hawaii, Department of Defense, Hawaii Army National Guard,
Job No. CA-1120-C

The items listed hereinafter are hereby made a part of the contract for the above mentioned project and shall govern the work taking precedence over previously issued contract documents governing the items mentioned. Receipt of this addendum is to be acknowledged on page OF-7 of the proposer's packet.

The following are questions submitted prior to the due date of August 25, 2014.

1. Can an "in compliance" statement from Hawaii Compliance Express be substituted for tax clearances called for in the Notice to Bidders?
 - a. *Yes, see page OF-6, the last paragraph in the section "TAX CLEARANCES FROM THE STATE DIRECTOR OF TAXATION AND INTERNAL REVENUE SERVICE" states "A Certificate of Vendor Compliance generated from this website shall be included with their bid proposal. A Compliant status is required prior to awarding the contract."*
2. Will proof of a bidder's paid membership application to HSEA, awaiting formal acceptance allow the bidder to be considered a member of HSEA for bidding purposes?
 - a. *Yes. Prime and/or sub-contractor must be listed with HSEA.*
3. Confirming that this is a 40kW installation?
 - a. *Yes, 40kW AC system.*
4. Does the Department of Defense or any other entity have any planned roof repair work for the roof to be used for the PV installation?
 - a. *No.*
5. Will there be any space allocated for mobilization? Of so, is this area secure?
 - a. *As with all State DOD construction, space will allocated for contractor mobilization; owner will not be held liable if materials, tools or supplies stored on site become damaged or missing. Contractor is responsible to secure and store all construction supplies and material.*
6. Is this a 40kW system AC or DC?
 - a. *See question 3.*
7. Where are the inverters to be mounted?
 - a. *Micro-inverters to be mounted on underside of each panel.*
8. Is any monitoring required?
 - a. *Monitoring is required via inverter manufacturer web-based data logging. Provide network cabling from inverter/s to communication room.*
9. Can contractor drill into ibeams to ensure panels security?
 - a. *Contractor shall provide drawing for review.*

10. Can Contractor provide higher wattage panels?
 - a. *Yes*
11. Are micro inverters or centralized preferred for installation?
 - a. *Micro-inverters are preferred*
- 11a. If interior installation of inverters is preferred, what is preferred area of inverters placement in facility interiors?
 - a. *If needed, Main electrical/mechanical room is preferred area.*
12. What is the required warranty for roof?
 - a. *PV system and roof penetrations warranted for 1 year for workmanship. Contractor shall provide drawings, details and submittals for review to maintain roof warranty.*
13. Concerning existing meter, is electrical meter upgrade required to be included in this bid proposal?
 - a. *Yes, meter needs to be changed to accommodate KIUC NEM or Schedule Q agreement*
14. There are no specifications provided for Solar Modules, PV Racking, and Inverters. Is this a design build project keeping the system size of 2 x 20 kW DC System Rating and the requirements of "Buy America Act"?
 - a. *Federal funds are funding this project, Buy America Act does apply.*
15. Drawing E-1 - Please provide specifications for "Relay" See Note 2.
 - a. *Relay functionality to meet IEEE 1547 Anti-Islanding requirements*
16. Drawing E-1 - Note 2 states that Relay will prevent islanding and synchronize with incoming utility power. We suggest that modern string inverters will prevent islanding and also synchronize with incoming utility power. We also suggest that a PV Load Center be specified so as to connect two or more inverters to one tie in point.
 - a. *Micro-inverter should be grid compliant according to IEEE 1547: they are required to detect and sync to the utility sine wave as well as to cease exporting power when grid voltage or frequency is too low or too high. For a system of this size, a PV load center is recommended for tying together micro-inverter outputs.*
17. Drawing E-1 Note 3 refers to Micro Inverters for each PV Panel but the same drawing calls out 20 kW String/Central Inverters each.
 - a. *Correction, there should be a callout only for micro-inverters.*
18. Drawing E-1 shows 80 solar panels on each roof for a system size of 20 kW on each roof thereby deducing that each PV Panel is 250W. Can we provide 20 kW on each roof with a different PV Panel rating (say, 240W each or 260W each)?
 - a. *Yes*
19. Statement of Work Section 4 SBA Criteria i:
 1. Please clarify whether HSEA membership is required when the bidder is US SBA certified.
 - a. *See question/answer #2.*
 2. Please clarify if C-61 License is required as the scope of work does not pertain to Solar Hot Water Systems.
 - a. *A C-61 license is "Solar energy systems contractor", A C-61a license is "Solar hot water systems contractor", A C-61b license is "Solar heating and cooling systems contractor". Yes a C-61 license is required.*
 3. Please clarify "Favorable reputation with City & County".
 - a. *Contractor cannot be suspended by State and/or County public works construction projects as a contractor or subcontractor in accordance with HRS chapter 104, specifically, §104-25, Suspension.*

20. Statement of Work Section 1 stipulates that the contractor has to apply for NEM in accordance with KIUC. It is reliably understood that KIUC is only offering Schedule Q interconnection and not NEM at this time. Division 16 Electrical 1.02 C requires contractor to comply with KIUC Schedule Q Modified Agreement.
- a. *See question 13.*

Darryll D.M. Wong
Major General
Adjutant General

Posted: August 28, 2014

PRE-BID CONFERENCE ATTENDANCE LIST

DATE: August 21, 2014 at 10:00am

PROJECT: Furnish & Install Solar Renewable Energy System at Hanapepe Readiness Center,
State of Hawaii, Department of Defense, Hawaii Army National Guard, Job No. CA-1120-C

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