



07 OCT -9 P3:23

STATE PROCUREMENT OFFICE NOTICE & REQUEST FOR SOLE SOURCE

STATE PROCUREMENT OFFICE
STATE OF HAWAII

- 1. TO: Chief Procurement Officer
- 2. FROM: DLNR DOFAW
Department/Division/Agency

Pursuant to §103D-306, HRS, and Subchapter 9, Chapter 3-122, HAR, the Department requests sole source approval to purchase the following:

3. Description of goods, services, or construction:
 Collection and analysis of high resolution sub-orbital digital imagery. This imagery will provide us with the following information:

- A. Locations of areas of pristine native forest with high levels of species diversity worthy of special management efforts
- B. Distribution of invading species including small outlying and incipient populations, which are difficult to detect using traditional means.
- C. Location and nature of geographical features which are of primary concern for liability reasons.
- D. Individual tree level information to be used for the long term management of "canoe log" trees
- E. Enable mapping of species across broad areas with relatively little expensive fieldwork
- F. Establish a baseline for future monitoring of forest decline in these areas

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| 4. Vendor Name: The Carnegie Institute Address: 1530 P Street NW Washington, DC 20005 | 5. Price: <u>\$80,000</u> |
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| 6. Term of Contract: (mm/dd/yyyy) From: <u>11/1/07</u> To: <u>10/31/08</u> | 7. Prior Sole Source Ref No. |
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8. Feature: The good, service, or construction has the following unique features, characteristics, or capabilities: The Carnegie Institution's system is unique in its combination of waveform (as opposed to point sample) LiDAR with hyperspectral imagery, capable of distinguishing more than 200 distinct bands of light. This combination of imagery provides not only a clear and accurate 3 dimensional image of the forest but also accurate species distribution information. This is done by detecting distinct spectral signatures. The Carnegie Institution is unique in that it, in conjunction with the US Forest Service, is in the process of establishing a library of spectral signatures for species, both native and introduced, commonly found in Hawaii. For more information please see the Carnegie Aerial Observatory website at <http://cao.stanford.edu/>.

9. Essential features. How the unique features, characteristics, or capabilities are essential for the agency to accomplish its work: The imagery that is to be acquired will provide information with greater accuracy and detail than could be obtained from thousands of hours of traditional fieldwork in remote and inaccessible areas. It will enable us to determine the extent of intrusion into native forests by invasive species. It will also enable us to detect incipient invasions that can be eliminated early, thus saving huge sums of money when compared with fighting an invasion at a later stage. By essentially employing 100 percent sampling across the landscape it will eliminate the traditional sampling error associated with traditional surveys.

11. Alternate source. The following other possible sources for the good, service, or construction were investigated but do not meet our needs because:

Spencer B. Gross Inc., Portland Oregon - has insufficient vertical resolution, 5 returns per pulse as opposed to 200 for Carnegie's system.

Airborne 1, El Segundo CA, does not do hyperspectral imagery.

Merrick Inc. Aurora Co., would need to have a project on the scale of .5 to 1 million in order to operate in Hawaii.

12. Direct any inquiries to:

Department: DLNR/DOFAW

Contact Name/Title: David Joughin

13 Phone Number:

808-586-0915

Fax Number:

808-587-0160

Expenditure may be processed with a purchase order: Yes No If no, a contract must be executed and funds certified.

Agency shall ensure adherence to applicable administrative and statutory requirements.

14. I certify that the information provided above is to the best of my knowledge, true, correct and that the goods, services, or construction are available through only one source.

for KWC Kawai
Department Head

10/09/07
Date

Reserved for SPO Use Only

15 Date Notice Posted: 10/10/07

Submit written objections to this intent to issue a sole source contract within seven calendar days or as otherwise allowed from the above posted date to:

Chief Procurement Officer
State Procurement Office
P.O. Box 119
Honolulu, Hawaii 96810-0119

16. Chief Procurement Officer's comments:

There are other imagery systems on the market. While this system has some unique features that the agency states is needed, that is not justification for sole source approval. If the agency believes it has justification for an exemption, they may submit SPO Form-7, Notice and Request For Exemption From Chapter 103D, HRS.

17.

APPROVED DISAPPROVED NO ACTION REQUIRED

Adrian S. Fyfe
Chief Procurement Officer

10/12/07
Date