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STATE OF HAWAII
REQUEST FOR SOLE SOURCE

'04 FEB 19 P3:16

STATE PROCUREMENT OFFICE
STATE OF HAWAII

TO: Chief Procurement Officer

FROM: Department of Accounting and General Services, Division of Public Works
(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:

Description of goods, services, or construction:

Microflect 800 Series four-leg self-supporting tubular steel leg communications antenna towers assembled from standard modules (or bays) that have been pre-engineered to provide the necessary support and stiffness to meet the twist and sway requirements for long haul over-water microwave radio links. Towers include standard components for simplified mounting of various sized microwave dish antennas with side struts and azimuth adjustment rods, as well as other antennas of various types and sizes (such as large whip antennas as used in government land mobile radio service). Towers include the galvanized steel components of the structure, anchor bolts and bolt installation templates, work platforms, climbing ladders with fall arrestors, waveguide ladders, and horizontal cable bridges. Tower structures must survive 139-mph winds per EIA/TIA 222-F. The Information and Communication Services Division (ICSD) of DAGS will use these towers at the following projects:

Kahua Ranch Radio Facility and Tower, Hawaii	D.A.G.S. Job No. 11-10-0259	Tower height = 70 ft.
Puu Nana Radio Facility and Tower, Molokai	D.A.G.S. Job No. 15-10-0258	Tower height = 110 ft.
Koko Head Radio Facility and Tower, Oahu	D.A.G.S. Job No. 12-10-0257	Tower height = 70 ft.

Name of Vendor:	Valmont Industries, Inc.	Cost: Estimated FOB Salem, OR
Address:	3575 25th Street SE	Kahua Ranch = $ 40,000
	Salem, Oregon 97602-1123	Puu Nana = $ 70,000
		Koko Head = $ 40,000

Term of Contract:	From:	To:	Prior Sole Source Reference No.:
To be determined upon the award of the above cited solicitations.			

The goods, services, or construction has the following unique features, characteristics, or capabilities:

The Valmont Microflect 800 Series of self-supported towers are made of physically large tubular vertical members with pipe diagonals and double angle girts. This design provides maximum axial load capacity and offers the most efficient strength to weight ratio for a non-guyed tower. Furthermore the Valmont Microflect 800 Series towers used for these projects meet microwave antenna twist and sway specifications at 139-mph wind speeds per EIA/TIA 222-F which means that the antenna systems supported by the towers can remain operational during a Safir Simpson Category 2 hurricane and that the towers can be expected to survive a Safir Simpson Category 4 hurricane.

The use of pre-designed modular bays in the Valmont Microflect 800 Series towers simplifies the engineering, design, and construction of the tower and antenna mounts. The layout of the diagonals and girts provides the required structural tie points for antenna side struts and azimuth rods without requiring additional steel members. Standard components are available for mounting any type of antenna at any level on the 800 Series towers and new antennas can be mounted without the need for new drawings or tower steel replacement. Furthermore, the use of a standard design provides for a common infrastructure and inventory of components used for waveguide ladders and bridges, personnel climbing ladders, anti-climbing security hardware, and fall arresting systems.

How the unique features, characteristics, or capabilities are essential for the agency to accomplish its work:

The Kahua Ranch, Puu Nana, and Koko Head Radio Facilities and Towers will be used with other State of Hawaii radio facilities and the facilities of the U.S. Coast Guard to support the shared use statewide Anuenue radio system. The Anuenue will provide the transport and facilities for mission critical radio systems that support homeland security, law enforcement, and emergency and disaster response. These three facilities will also support the radio systems that serve the first responders in their counties. The expectation is that these facilities and towers will be of extraordinary construction sufficient to have a reasonable chance of surviving all but the most extreme weather conditions so that the delivery of essential government services continues without interruption after a disaster or emergency.

The DAGS ICSD has standardized on the use of Microflect 800 Series towers (6 large Microflect 800 Series towers are in use currently at other ICSD facilities). This standardization minimizes the amount of inventory that must be maintained to support emergency tower repair or the restoration (remounting) of antennas. Furthermore, the salt air and sunshine in Hawaii force a continuous maintenance program that is aided by the use of common procedures in the monitoring and inspection process. Repairs, upgrades, and antenna additions that are necessary are less costly due to the use of non-custom components and the fact that non-recurring engineering is not required. Finally employee and contractor safety is enhanced because the common safety climbing systems in use at the Microflect 800 Series used statewide at ICSD facilities simplify training and personal safety equipment requirements.

The following other possible sources for the goods, services, or construction were investigated but do not meet our needs because:

Solid steel rod towers of the type manufactured by Pirod of Plymouth, IN (SU-16 series) or the Allied Tower Company of Alvin, TX (custom fabrication) are not useable because each leg of these types of towers is constructed of a lattice-connected tripod with solid rod main members. The resulting cage-like structure for each leg is extremely difficult to maintain and requires substantially more hardware components to install any given type of antenna. The need to inspect, clean, and paint the many small cross pieces and bits of mounting hardware make these unusable for supporting large microwave antennas in Hawaii's extreme environment. These towers are typically used to support antennas such as those used in broadcast and land mobile radio applications that have much smaller wind and weight loads than large microwave antennas.

Other suppliers of towers of self-supporting tubular steel leg communications antenna towers, such as Communications Structures & Services, Inc. of Burleson, TX; World Tower Company, Inc. of Mayfield, KY; Microwave Transmission Systems, Inc. of Richardson, TX; and all others known to us, offer only unique designs that are based upon the customer's requirements for each site and are not built from standard modules or bays. Use of such a custom product forces the maintenance of a larger component inventory and requires additional custom engineering whenever changes or additions are made. The selection of a custom product also precludes the use of uniform fall prevention and personal safety gear at all State facilities, which increases facility management costs and becomes a liability concern.

Direct questions to: Daniel Jandoc, Public Works Div., Project Management Br. Phone: 586-0476

Robert J. Hlivak, ICS Division Phone: 586-1930 x013

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.

Russ K Saito 2/18/04

Department Head or Designee Date

Title (If other than Department Head)

Chief Procurement Officer's comments:

DAGS-PWD shall submit amendment(s) to this sole source upon the award of the individual solicitations cited, when a contract period has been determined and for any changes affecting the contract expiration date.

Please ensure adherence to applicable administrative and statutory requirements.

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

☒ APPROVED ☐ DISAPPROVED

Chief Procurement Officer 3/4/04

Date

Submit in Duplicate

STATE OF HAWAII
NOTICE OF SOLE SOURCE

The Chief Procurement Officer is in the process of reviewing the request from the Department of Accounting and General Services, Division of Public Works for the sole source purchase of the following goods, services, or construction:

Microflect 800 Series four-leg self-supporting tubular steel leg communications antenna towers assembled from standard modules (or bays) that have been pre-engineered to provide the necessary support and stiffness to meet the twist and sway requirements for long haul over-water microwave radio links. Towers include standard components for simplified mounting of various sized microwave dish antennas with side struts and azimuth adjustment rods, as well as other antennas of various types and sizes (such as large whip antennas as used in government land mobile radio service). Towers include the galvanized steel components of the structure, anchor bolts and bolt installation templates, work platforms, climbing ladders with fall arrestors, waveguide ladders, and horizontal cable bridges. Tower structures must survive 139-mph winds per EWTIA 222-F. The Information and Communication Services Division (ICSD) of DAGS will use these towers at the following projects:
Kahua Ranch Radio Facility and Tower, Hawaii D.A.G.S. Job No. 11-10-0259 Tower height = 70 ft.
Puu Nana Radio Facility and Tower, Molokai D.A.G.S. Job No. 15-10-0258 Tower height = 110 ft.
Koko Head Radio Facility and Tower, Oahu D.A.G.S. Job No. 12-10-0257 Tower height = 70 ft.

~~**Vendor**~~ **Manufacturer:** Valmont Industries, Inc.

Address: 3575 25th Street, Southeast
Salem, OR 97602-1123

Term of Contract:	From: To:	**Cost:** EST FOB Salem, OR
	To be determined upon award of the above solicitations	Kahua Ranch ~$40,000 Puu Nana ~$70,000 Koko Head ~$40,000
	Costs are estimates, excluding freight and installation.	

Direct any inquiries to:

Department: Accounting and General Services, Division of Public Works

Contact Name/Title: Mr. Daniel Jandoc, Project Management Br.

Address:

Phone Number: 808-586-0476

Fax Number:

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Date Notice Posted: February 23, 2004

A copy of this notice of sole source shall be posted by the Chief Procurement Officer and the purchasing agency in an area accessible to the public, at least seven (7) calendar days prior to any approval action.

Submit written objections to this notice to issue a sole source contract within seven (7) calendar days from the date this notice was posted to:

Chief Procurement Officer
Office/Agency State Procurement Office
Address 1151 Punchbowl Street, Room 416
Honolulu, Hawaii 96813