



DEFENSE LOGISTICS AGENCY
DLA MARITIME - PUGET SOUND
467 "W" STREET
BREMERTON, WASHINGTON 98314-5100

N REPLY
REFER TO

CONTROL NUMBER 2016-005

SMPYM2-16-Q-2049

**JUSTIFICATION AND APPROVAL (J&A)
FOR USE OF OTHER THAN FULL AND OPEN COMPETITION**

1. **Contracting Activity.**

DLA Maritime Puget Sound, in support of the Puget Sound Naval Shipyard and Intermediate Maintenance Facility (PSNS & IMF), intends to procure the following supplies under other than full and open competitive circumstances based upon the following.

2. **Description of Action Being Approved.**

This J&A is to award a Firm Fixed Price Supply contract on an only known source basis to obtain Microwave Analyzer, and accessories, Keysight P/N N9952A. Award will be made in accordance with FAR Part 12 and 13.5.

3. **Description of Supplies/Services.**

The minimum needs of the Government include:

Microwave Analyzer, Keysight Fieldfox P/N N9952A which includes:

Vector network analyzer time domain	Keysight P/N N9952A-010,
Extended Range Transmission Analysis (ERTA)	Keysight P/N N9952A-209,
Vector Network Analyzer Transmission/reflection	Keysight P/N N9952A-210,
Time Domain Reflectometer (TDR) cable measurements	Keysight P/N N9952A-233,
Pre-amplifier	Keysight P/N N9952A-235,
GPS receiver	Keysight P/N N9952A-307.

The item is used on US Navy submarine imaging, electronic warfare and radar system Troubleshoot (T/S), repair and certification.

IMF Code 876, Shop 35A, Periscope Overhaul & Certification and IMF Code 872, Shop 67A, Periscope & Radar Test & Repair, each perform Voltage Standing Wave Ratio (VSWR), also known as reflected power loss and insertion loss also known as input attenuation testing on periscope Radio Frequency (RF) paths. This requires a network analyzer with a 50 GigaHertz (GHz), or 50 billion oscillations per second capability. The current shop equipment is failing, is no longer manufactured, and is obsolete. The Keysight Fieldfox N9952A Microwave Analyzer is the only one on the market that has the 50 GHz capability.

The estimated cost of this requirement is [REDACTED]. The appropriate fiscal year's **OM&N** funds will be used at the time of contract award.

4. **Statutory Authority Permitting Other Than Full and Open Competition.**

10 U.S.C. 2304(c)(1), Only One Responsible Source and no other suppliers or services will satisfy agency requirements, as authorized by FAR 6.302-1.

5. **Rationale Justifying Use of Cited Statutory Authority.**

Shop 35A and 67A presently use Agilent 8757D Scalar Network Analyzers which are both over 10 years old. These units are used to perform insertion loss and VSWR testing for the Type 15L and 8J/B periscope RF paths. The shop also has to test the 8J/B Periscope Extremely High Frequency (EHF) Satellite Communication (SATCOM) Uplink and Downlink paths (Q-Band sweeps). To accomplish these tests, specialized test equipment is required that can perform insertion loss and VSWR up to 50 Ghz on specialized 0.5 inch and 0.562 inch circular waveguide. The current equipment is deemed obsolete, and is no longer being manufactured. Our equipment has become unreliable.

The Keysight Fieldfox P/N N9952A is a new 50 GHz, Cable and Antenna analyzer / Full 2-port Vector Analyzer with built-in TDR / Distance to Fault functions. There are other analyzers on the market with similar capabilities but the Keysight Fieldfox P/N N9952A is the only instrument to provide 50 GHz capability. The Keysight Fieldfox P/N N9952A also includes a new proprietary capability for Vector analyzers called Extended Range Transmission Analysis (ERTA). ERTA can be used to measure the scalar transmission gain or loss of a Radio Frequency (RF) system and long cable and waveguide runs. ERTA operation requires two (2) Keysight Fieldfox P/N N9952A: one at each end of the line being tested. One Keysight Fieldfox P/N N9952A is the source and reference receiver and the other is the measurement receiver. The two Keysight Fieldfox P/N N9952As are synchronized using hardware triggering. The Keysight Fieldfox P/N N9952A is the only 50 GHz vector analyzer on the market with this required capability. The Keysight Fieldfox P/N N9952A Vector Analyzer has been evaluated and approved for use by Naval Undersea Warfare Center (NUWC) Newport RI.

PSNS & IMF, along with multiple other shipyards received Naval MESSAGE P-261549Z, dated May 16, 2016 from (Mid-Atlantic Naval Regional Maintenance Centers (MARMC), Norfolk, VA., SUBJECT/SUBMARINE IMAGING ELECTRONIC WARFARE AND RADAR SYSTEM TEST / EQUIPMENT DATA CALL/, which details the test equipment requirements, by Sub-Category (SCAT) codes that are required to fulfill maintenance, repair & certification of periscopes. The message goes on, in PARA 3 A through C, discussing SCAT code (a standard which identifies test equipment with equivalent standards & characteristics and may be interchanged as necessary for use) references identify test equipment authorized for use in conjunction with submarine imaging, electronic warfare and radar system Troubleshooting, repair and certification.

Most test equipment currently authorized for performance of the above noted procedures are obsolete and can no longer be procured, repaired or calibrated.)

NAVSEA and intelligence community stakeholders working with cognizant imaging, Electronic Warfare and Radar System In-Service Engineering Agents (ISEA) and assisted by the Naval Air Warfare Center, Weapons Division (NAWCWD) China Lake have identified the Aeroflex 6825AN, Keysight Fieldfox N9918A, and Keysight Fieldfox N9952A as suitable substitutes for the majority of legacy Radio Frequency test equipment. Keysight Fieldfox N9952A is a suitable substitute for SCAT codes 4515, 4515ANC and 4380 in accomplishment of maintenance standards, maintenance requirement numbers, Troubleshooting foldouts, Technical Manual procedures, and grooming, certification and test procedures.

The Keysight Fieldfox P/N N9952A Analyzer is the only one on the market that has the 50 GHZ capability required to certify the EHF (Extra High Frequency) satellite communications functions of certain models of periscopes.

6. Description of Efforts Made to Solicit Offers from as Many Offerors as Practicable.

(a) Sources Expressing Interest.

- 1) Test Equity, 6100 Condor Drive, Moorpark, CA 93021, 1-800-950-3457
- 2) TESTMART, Technical Communities, 1111 Bayhill Drive, Ste 400, San Bruno, CA 94066, Matthew McMahon 1-888-665-2765 x3706, Tax ID 94-3310442
- 3) A Sources Sought notice was posted on 12 Aug 2016 with a response date of 18 Aug. Only one (1) response was received from an authorized Small Business distributor who expressed interest in providing the Keysight items.

(b) Synopsis.

This effort will be synopsisized in accordance with the exception at FAR 5.201.

(c) Market Research.

These items are commercially available thru suppliers/distributors based on market research conducted by both the end user and contracting officials.

7. Determination of Fair and Reasonable Cost.

The contracting officer will determine prior to contract award that the cost to the Government for the supplies covered by this J&A is fair and reasonable.

8. Actions to Remove Barriers to Future Competition.

Intermediate Maintenance Facility (Bangor) CODE 870 is not currently aware of other sources of suitable analyzers that can meet the specifications to perform the prescribed testing requirements. If other manufacturers would design and manufacture like equipment this would remove barriers to future competition. The Analyzer must be

supported by the Navy Metrology Calibration program so that it can be calibrated annually. If the analyzer cannot be calibrated it cannot be used for quantitative measurement.

An NSN for future procurements for the Keysight Fieldfox N9952A is under development by MARMAC per message (attached) dated 14 June 2016.

CERTIFICATIONS AND APPROVALS

CONTRACT SPECIALIST/NEGOTIATOR

TOGIOKA.JOA
 NN.1232059229

Digitally signed by
 TOGIOKA.JOANN.1232059229
 Date: 2016.08.22 15:28:47 -0700'

	Jo Ann Togioka	(360) 476-5330	19 Aug 2016
Signature	Name (Printed)	Phone No.	Date

CONTRACTING OFFICER CERTIFICATION (FAR 6.303-2(a)(12) & 6.304(a)(1))

I certify that this justification is accurate and complete to the best of my knowledge and belief.

TOGIOKA.JOA
 NN.1232059229

Digitally signed by
 TOGIOKA.JOANN.1232059229
 Date: 2016.08.22 15:28:57 -0700'

	Jo Ann Togioka	(360) 476-5330	19 Aug 2016
Signature	Name (Printed)	Phone No.	Date

LEGAL SUFFICIENCY REVIEW

I have determined this justification is legally sufficient.



Signature	Name (Printed)	Phone No.	Date

APPROVAL REQUIRED BY FAR 6.304(a)(2,3,4)

Upon the basis of the above justification, I hereby approve,
the solicitation of the proposed procurement(s) described herein using other than full
and open competition pursuant to the authority of 10 U.S.C. 2304(c)(2).

Signature

Name (Printed)

Phone No.

Date

CERTIFICATIONS

TECHNICAL / REQUIREMENTS CERTIFICATION

I certify that the facts and representations under my cognizance which are included in this justification and its supporting acquisition planning documents, except as noted herein, are complete and accurate to the best of my knowledge and belief and do not contain classified information.

Technical Cognizance

Name (Printed) [REDACTED]	Phone [REDACTED]
Signature [REDACTED]	Date 6/30/16

Requirements Cognizance

Name (Printed)	Phone
Signature	Date

(Note that this page includes certification that the acquisition planning documents are complete and accurate.)

(If a single individual has cognizance over both technical and requirements information included in this Justification the individual may sign both signature blocks.)

REQUIRING ACTIVITY COMPETITION ADVOCATE

(Review required if such an individual has been assigned by the requiring activity.)

Name (Printed) Dwin Crow	Phone (360) 476-4111
Signature CROW, DWIN, CHARLES, 1161545475	Date 7/15/2016