

JUSTIFICATION FOR SOLE SOURCE/BRAND NAME SOLE SOURCE <\$150K

PO Number:		
The effort listed on this form is for: (please mark one):	<input checked="" type="checkbox"/> Supply	<input type="checkbox"/> Service
The material and/or service listed on this form is (please mark one):	<input type="checkbox"/> Sole Source	<input checked="" type="checkbox"/> Brand Name

Restricted to the following source or manufacturer:

- **Manufacturer/Source:**
Hokuyo Automatic Co. Ltd.
- **POC and Phone Number:**
We are not restricted to a single source, only a single brand and model. It appears that the domestic distributors are limited to two vendors:
- **Address:**



Description of the item(s) or service(s) required and the estimated cost(s):

The requirements are associated with supporting an instructional laboratory experience in mobile robotics as part of ME4823 and other unmanned systems courses. Laser scanners are a typical payload sensor for robotic platforms and used for mapping, navigation and obstacle avoidance.

Item#	MFG Name	MFG Part#	Description	Qty	U/I	Unit Price	Ext Price
	Hokuyo	UTM-30LX	Scanning range finder	6			

1. List the Required Delivery Date (RDD) or Period of Performance (POP):

To be used in the next offering of ME4823 the parts would need to be delivered by 1 August 2016.

If not delivered then, they will be used for the next offering of the course.

*** If additional space is required, please attach a continuation sheet.

2. Specify characteristics of the material or service that limit the availability to a sole source/brand product (unique features, function of the item, etc.). Describe in detail why only this source/brand can furnish the requirements to the exclusion of other sources/brands.

We have selected this Brand and Model of laser scanner based on the requirements developing an instructional laboratory experience in robotics.

Input voltage: 12 Vdc

Power: Less than 10 W

Interface: USB

Software: ROS driver

Must be capable of being used outdoors to detect obstacles.

In addition to these requirements, this unit is something that is used by other instructors/researchers on campus. This allows for a continuity of experience for students in unmanned systems as they work with other laboratories in other departments. NPS currently owns on the order of 12 of these units, but they are all obligated to ongoing classroom, thesis and research projects.

3. Indicate if the requested material or service represents the minimum requirements of the Government.

Yes,.

4. Indicate if the material or service must be compatible in all aspects (form, fit, and function) with existing systems presently installed/performing. Describe the equipment/function you have now and how the new item/service must coordinate, connect or interface with the existing system.

Yes. These units will be integrated on existing ground robot platforms. These platforms use the robotic operating system (ROS) as the software infrastructure. These units are well supported by ROS drivers making it feasible to integrate them in the existing platforms.

5. Does a patent, copyright or proprietary data limit competition?

No.

*** If additional space is required, please attach a continuation sheet.

6. Are the items "direct replacement" parts/components for existing equipment? If so, provide the information about the Next Higher Assembly (NHA)/equipment which the replacement parts are going into (e.g., description, model, part number, Original Equipment Manufacturer (OEM), etc.).

No.

7. Provide any additional information to support a sole source/brand name sole source procurement. The rationale must justify "either" substantial duplication of cost to the Government that is not recovered through competition or unacceptable delays in fulfilling the mission of the agency.

None.

*** If additional space is required, please attach a continuation sheet.

TECHNICAL OR REQUIREMENTS CERTIFICATION

I CERTIFY THAT THE STATEMENTS CHECKED, AND INFORMATION PROVIDED ABOVE ARE COMPLETE AND CORRECT TO THE BEST OF MY KNOWLEDGE. I UNDERSTAND THAT THE PROCESSING OF THIS SOLE SOURCE/BRAND NAME SOLE SOURCE JUSTIFICATION PRECLUDES THE USE OF FULL AND OPEN COMPETITION.

Printed Name:

Signature:

[Redacted Signature Area]

CONTRACTING OFFICER APPROVAL:

Printed Name:

Signature:

[Redacted Signature Area]