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

PO Number: 61848		
The effort listed on this form is for:	✓ Supply	☐ Service
The material and/or service listed on this form is:	☐ Sole Source	✓ Brand Name

Restricted to the following source or manufacturer:

- Manufacturer/Source: DJI
- POC and Phone Number: Per website: (818) 235-0789
- Address: Los Angeles, CA; www.dji.com

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

Item#	MFG Name	MFG Part#	Description	Qty	U/I	Unit Price	Ext Price
	DJI	Matrice 100	Antenna Kit	6	Ea	[redacted]	
	DJI	Matrice 100	UAV	6	Ea		
	DJI	Matrice 100	Guidance	6	Ea		
	DJI	Matrice 100	Guidance Connector Kit	6	Ea		
	DJI	Matrice 100	TB48D Battery	24	Ea		
	DJI	Matrice 100	Battery Compartment Kit	6	Ea		
	DJI	Matrice 100	Expansion Bay Kit	6	Ea		
	DJI	Matrice 100	GPS	6	Ea		
	DJI	Matrice 100	N1 Video Encoder	6	Ea		
	DJI	Matrice 100	Propeller Guard	6	Ea		
	DJI	Matrice 100	Shipping estimate	6	Ea		

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

RDD is as soon as possible, as research on the sponsored project cannot progress until items are received.

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.

DJI vendor offers UAV complete development packages of the desired size and ruggedness for our research. The Matrice-100 UAVs includes all the components required for our development and manipulation and testing of the hardware and software. No other vendor found offered complete development UAV packages that meet our research requirements. The requirements that we are looking for are:

a) no payload speed of 22 m/s
b) quadcopter
c) maximum tilt angle: 35 degrees
d) maximum speed of ascent: 5 m/s
e) maximum speed of descent: 4 m/s
f) maximum wind resistance: 10 m/s
g) maximum takeoff weight: 3600 g
h) expansion bays
i) carries payload
j) gimbal and camera capability
k) carries two batteries
l) hovering time: 40 minutes
m) transmission distance: 5 km
n) operating frequency: 5.725~5.825 GHz
o) EIRP: 13dBm@5.8G
p) Video output: USB, Mini-HDMI
q) Battery: LiPo 6S, 5700 mAh
r) GPS capability
s) Obstacle avoidance system utilizing visual cameras and ultrasonic sensors at altitude of 20 meters
t) Easy system and new payload integration

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

Yes, the requested material represents the minimum requirements of the Government.

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.

This brand name justification is not based on existing systems. This is new research that does not rely on compatibility with existing systems.

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

No.

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.

NPS research requires the Matrice 100 UAVs, which allow easy system configuration for research. To the best of our knowledge, this feature is not found in other UAVs offerings and is critical in meeting our research mission in a timely manner.

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 OPENT COMPETITION.

[redacted]

CONTRACTING OFFICER APPROVAL:

[redacted]