## **RFP QUESTIONS AND ANSWERS**

File: W6369-23-X024

Initiative: Two (2) Optical Telescopes

RFP Issued: 2023-07-24

RFP Closed: 2023-08-24 at 14:00 Eastern Daylight Time (EDT).

Number	Questions/Answers/Amendments	Date Received/ Replied
Question 1:	With respect to the Operating wavelength specification, would Canada accept a range of 400 – 700 nm?	Wed 2023-08- 09 13:55
Answer 1:	See Amendment 1.	Thu 2023- 08-10
Question 2:	With respect to the System Transmission specification, would Canada accept an average transmission of 75%?	Wed 2023-08- 09 13:55
Answer 2:	See Amendment 1.	Thu 2023- 08-10
Question 3:	Would Canada accept delivery before March 31, 2024?	Wed 2023-08- 09 13:55
Answer 3:	As per section <b>6.14 Shipping Instructions</b> of the RFP, DND will be responsible for shipping the goods. The Contractor will be responsible for ensuring the deliverables are ready for pick-up by the date indicated in the RFP. The goods must be delivered and accepted before or on 31 March 2024.	Thu 2023- 08-10

Number	Questions/Answers/Ame	endments	Date Received/ Replied
Amendment 1:	RFP W6369-23-X024 is hereby amended as follows:		
	DELETE section 4.1 of Annex A. in its entirety.		
	INSERT the following as section 4.1 of Annex A		
	4.1 Optical Telescope Tube Assemblies Required quantity: 2 The Contractor must provide the Optical Telescope Tube Assemblies with the following specifications:		
	Specifications	Value	
	Optical aperture diameter	Minimum: 20 inch (504 mm)	
	Focal length	Minimum: 3300 mm. Maximum: 3600 mm	
		Visible to Near Infrared (V/NR): 400 – 700 pm	
	System Transmission		
	BMS Spot size	On axis: maximum of 5 microns	
		25 mm off axis: maximum of 10 microns	
	Vignetting	Maximum: 20% measured 25 mm off-axis	
	Image circle	Minimum: 52 mm	
	Back focus distance	Minimum: 200 mm, Maximum 250 mm	
	Optical tube weight	Maximum: 150 lbs (72.5 kg)	
	Optical assembly overall length ready for robotic mount integration	Maximum: 1325 mm	
	Optical assembly Overall width including mount interface	Maximum: 725 mm	
	Central obstruction	Secondary mirror diameter not to exceed 40% of primary mirror diameter	
	Optical tube material	<ul> <li>-Carbon Fiber to minimize focus shift when operating telescope spanning temperatures spanning -30°C to +30°C.</li> <li>-Other materials accepted if demonstrated that thermal focus shift is within 20% of Carbon Fibre.</li> </ul>	
	Power	Auxiliary telescope equipment such as dew heaters or fans must accept 120 VAC to vendor provided power adapters	
	Focal ratio	Must be compatible with corrector lens / focal extender to extend focal length by minimum 12%	
	Backplane	Must be compatible with 2" nose piece for Finger Lakes Kepler 4040 Camera	
	Dovetail accessory	Telescope assembly must accommodate a Losmandy D astronomy dovetail for piggybacked cameras	
	Dew prevention	Must provide a dew heater accessory in 5.2	
	Fans	Optional -Fans must be "field replaceable" if part of telescope assembly	
	Optical tube construction	Truss style telescope must accommodate a flexible shroud accessory to minimize dust/straylight from entering the optical path.	
	Integration	-Optical telescope must be compatible with the Planewave L500 mount operating in altitude-azimuth mode centered within a 10.5 ft Ash Dome. -Telescope must be suitable for remote, unattended robotic operation for data acquisition on Earth orbiting satellites without manual adjustment of focus, collimation, or other optical configuration prior to unattended use.	
	Software	Must provide Software release support and patches (as applicable).	
	Crating	Appropriate crating of Optical Telescope Tube Assemblies to ensure goods are protected during transportation.	

Number	Questions/Answers/Amendments	Date Received/ Replied
Question 4:	Would Canada accept a one-week extension?	Tue 2023- 08-15 08:56
Answer 4:	See Amendment 2.	Fri 2023- 08-18
Amendment 2:	Solicitation No. W6369-23-X024 is hereby extended to 02:00 PM Eastern Daylight Time (EDT) on 24 August 2023.	Fri 2023- 08-18