

Request for Proposal (RFT#28) for the supply of Mounted Linear Polarizers

Name of the proposal:

Supply of mounted linear polarizer, Justification for the requirement of the items, The components mentioned in this RFP will be used for testing spectro-polarimetric channel. To measure and analyze polarization induced intensity variations in received polarization at the detection plane.

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S. No	Name of the component	No. of Units required
1	Mounted Linear Polarizer	10

Technical specifications of the components

Optical Diameter	25 mm
Optic Thickness	$\geq 200 \mu\text{m}$
Wavelength range	550-1500 nm
Extinction Ratio	$> 10\,000:1$
Clear Aperture	$\geq 22.5 \text{ mm}$
Wavefront Distortion	$3\lambda @ 633 \text{ nm}$
Parallelism	$< 20 \text{ arcmin}$
Acceptance Angle	$\geq \pm 20^\circ$
Surface Quality	Scratch-Dig: 40-20
Surface Imperfections	$5/2 \times 0.04$ per 10 mm acc.
Laser Damage Threshold	$\geq 10 \text{ W/cm}^2$ at Continuous block $\geq 25 \text{ W/cm}^2$ at Continuous pass

Scope of the item:

Above mentioned items will be used for the laboratory experiments related to testing and calibration of VELC spectro-polarimetric channel.

Eligibility criteria of vendor:

The vendor must have knowledge, experience and infrastructure for the design and fabrication of polarization optics.

Expected deliverables:

As mentioned in "**Table of Contents**" along with conformance certificates for specifications mentioned in "**Technical specifications of the components**"

Expected Delivery Schedule

2-4 weeks from the date of purchase order

For any information/clarifications contact the following

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