

## Technical Specification For Filters and Lens

### 1.0 Bidder Eligibility Criteria:

I	Bidder Eligibility Criteria-I (GeM – Preference to Make in India)	Class I / Class II	Local Content Percentage	Ref. Page No.
1	Only 'Class-I local suppliers' and 'Class-II local suppliers', as defined under DIPP, MoCI Order No. P-45021/2/2017-PP (BE II) dated 16 <sup>th</sup> September 2020, No. P-45021/2/2017-PP (BE II)- Part(4)Vol.II dated 19 <sup>th</sup> July 2024 and other subsequent orders issued therein (ANNEXURE – I)			

### 2.0 Bidder Eligibility Criteria:

II	Bidder Eligibility Criteria-II	Complied/Not Complied	Ref Page No.
1	Vendor Registration ID/Proof		
2	Unquoted offer to be enclosed with technical bid in detail mentioning Model number, Description of the goods / service if any, for the supply with terms and conditions in conformity with the Tender requirement		
3	Land Border Certificate (ANNEXURE – II)		
4	<b>OEM Certificate Form</b> -The Participating Bidder's firm shall be the Original Equipment Manufacturer (OEM) or OEM Certified authorized firm (ANNEXURE – VII)		
5	Non- Debarment Declaration (ANNEXURE – VI).		
6	Mandate Form (ANNEXURE – VIII)		
7	EMD as per Tender, to be remitted in the account number as given in the (Annexure – V) or EMD is exempted for Micro and Small Enterprises (MSE) as defined in MSE Procurement Policy issued by Department of Micro, Small and Medium Enterprises (MSME) and Startups as recognized by Department of Industrial Policy & Promotion (DIPP). (MSE/MSME/DIPP PROOF should be enclosed in the cover containing technical bid). Any vendor furnishing MSME (Trading) certificate is not eligible for EMD Exemption and as well not entitled for any relaxation in the tender conditions.		

### 3.0 Technical Compliance

No.	Item	Specification	Quantity	Complied/Not Complied	Ref Page No.
1.	<b>Bandpass filter</b>	Wavelength: in the range of 520-530 nm Bandwidth: 20 nm Diameter: 50.00 mm Optical Density OD : $\geq 4.0$ Clear Aperture CA : $\geq 40$ mm Full Width-Half Max FWHM: 25.00 nm Substrate: Optical Glass Minimum Transmission: $>85\%$ Coating: Hard Coated Thickness with Mount: $<8$ mm	4		
2.	<b>Neutral Density filter</b>	Type: Absorptive ND filter Wavelength: in the range of 400-650 nm Diameter: 50.00 mm Optical Density OD : $\geq 4.0$ Substrate: Optical Glass or Filter Glass Coating: Uncoated Thickness with Mount: $<8$ mm	2		
3.	<b>Laser Line Polarizer</b>	Type: Thin-film Wavelength: in the range of 525-535 nm Diameter: 24.00 - 26mm Extinction Ratio: $\geq 10,000:1$ Substrate: Optical Glass or Fused Silica or hard-coated Damage Threshold: $\geq 1.8$ J/cm <sup>2</sup> Minimum Transmission: $>90\%$ Clear Aperture CA : $\geq 22.5$ mm Thickness: $<8$ mm	2		
4.	<b>High Energy Half Waveplate</b>	Type: High Energy Waveplate Wavelength: in the range of 525-535 nm Diameter: 24.00 - 26.00 mm Extinction Ratio: $\geq 10,000:1$ Substrate: Optical Glass or Fused Silica or Crystalline Quartz Damage Threshold: $\geq 15$ J/cm <sup>2</sup>	2		
5.	<b>Spherical Lens</b>	Type: Plano Convex Condenser lens Wavelength: in the range of 525-535 nm Diameter: 120-130 mm Effective Focal Length: 350-375 mm Coating: Uncoated	2		

6.	<b>Cylindrical Lens</b>	Type: Plano-Convex Cylindrical lens Dimensions: 25.4 x 25.4 mm Effective Focal Length: 50 mm Substrate: N-BK7 or Optical Glass or Crystalline Quartz Numerical Aperture NA: $\geq 0.25$ Coating: Uncoated Wavelength Range: 350 - 2200 nm Edge Thickness ET: <2.00 mm Center Thickness CT: <6.00 mm	2		
7.	<b>Cylindrical Lens</b>	Type: Plano-Convex Cylindrical lens Dimensions: 25.4 x 25.4 mm Effective Focal Length: 70 mm Substrate: N-BK7 or Optical Glass or Crystalline Quartz Numerical Aperture NA: $\geq 0.25$ Coating: Uncoated Wavelength Range: 350 - 2200 nm Edge Thickness ET: <2.00 mm Center Thickness CT: <6.00 mm	2		
8.	<b>Cylindrical Lens</b>	Type: Plano-Concave Cylindrical lens Dimensions: 25.4 x 25.4 mm Effective Focal Length: -50 mm Substrate: N-BK7 or Optical Glass or Crystalline Quartz Numerical Aperture NA: $\geq 0.25$ Coating: Uncoated Wavelength Range: 350 - 2200 nm Edge Thickness ET: <2.00 mm Center Thickness CT: <6.00 mm	2		
9.	<b>Cylindrical Lens</b>	Type: Plano-Concave Cylindrical lens Dimensions: 25.4 x 25.4 mm Effective Focal Length: -70 mm Substrate: N-BK7 or Optical Glass or Crystalline Quartz Numerical Aperture NA: $\geq 0.25$ Coating: Uncoated Wavelength Range: 350 - 2200 nm Edge Thickness ET: <2.00 mm Center Thickness CT: <6.00 mm	2		
10	<b>WARRANTY Period</b>	1 Year	1		

(i) It is mandatory for the bidders to provide the compliance statement (Complied/Not Complied) for the above points with document proof as required). If the compliance statement (Complied/Not Complied) is not furnished for the evaluation Bidders will be disqualified.

(ii) Technical Bid Should NOT Contain Price Bid/Financial Bid details (or) Indication. If the price Details are indicated, mentioned inside the technical bid, then bid will be disqualified and neither the Technical Bid nor the Price Bid/Financial Bid will be considered.

**SIGNATURE OF BIDDER ALONG WITH  
SEAL OF THE COMPANY WITH DATE**